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Section 1

General Information

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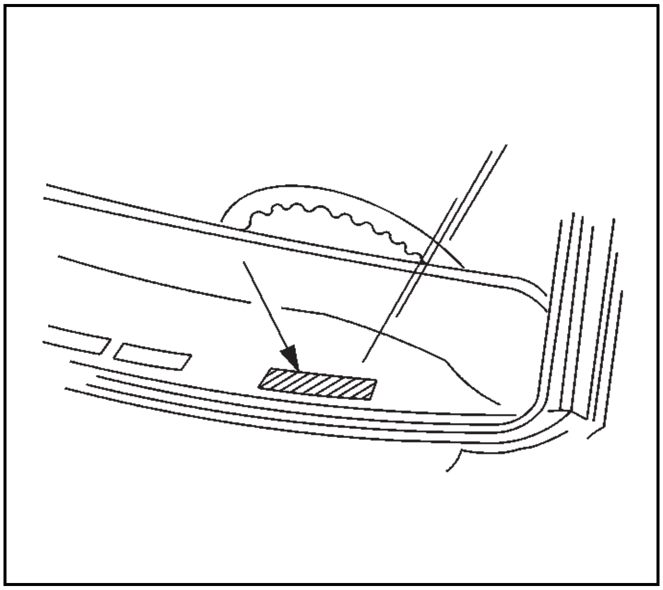
General Information

Introduction

Vehicle, Engine and Transmission ID and VIN Location, Derivative and Usage



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The VIN plate is the legal identifier of the vehicle. The VIN plate is located on the upper left corner of the instrument panel (I/P) and can be seen through the windshield from the outside of the vehicle:

Vehicle Identification Number (VIN) System

Position	Definition	Character	Description
1	Country of Origin	1	United States
2	Manufacturer	G	General Motors
3	Vehicle Brand/Type	B	Chevrolet Incomplete Truck
		C	Chevrolet Truck
		D	GMC Incomplete Truck
		T	GMC Truck
4	GVWR/Brake System/Body Style	G	5001–6000/Hydraulic – Crew Cab
		H	5001–6000/Hydraulic – Extended Cab
		P	6001–7000/Hydraulic – CrewCab
		R	6001–7000/Hydraulic – Extended Cab
5–6	Chassis/Series	S/A	Chevrolet Colorado, Base 2WD
		S/B	Chevrolet Colorado, Work Truck 2WD
		S/C	Chevrolet Colorado, LT 2WD
		S/D	Chevrolet Colorado, Z71 2WD
		S/9	Chevrolet Colorado 2WD, (Non-US, Non-Canada)
		T/B	Chevrolet Colorado, Work Truck 4WD
		T/C	Chevrolet Colorado, LT 4WD
		T/D	Chevrolet Colorado, Z71 4WD

Vehicle Identification Number (VIN) System (cont'd)

Position	Definition	Character	Description
		T/E	Chevrolet Colorado, ZR2 4WD
		T/9	Chevrolet Colorado 4WD, (Non-US, Non-Canada)
		5/A	GMC Canyon, Base 2WD
		5/B	GMC Canyon, Work Truck 2WD
		5/C	GMC Canyon, SLE 2WD
		5/D	GMC Canyon, SLT 2WD
		5/E	GMC Canyon, Denali 2WD
		6/B	GMC Canyon, Work Truck 4WD
		6/C	GMC Canyon, SLE 4WD
		6/D	GMC Canyon, SLT 4WD
		6/E	GMC Canyon, All Terrain 4WD
		6/F	GMC Canyon, Denali 4WD
7	Restraint System	E	RPO AY0 – Active Manual Belts, Airbags – Driver and Passenger - Front (1st row), Front Seat Side (1st row), Roof Side (All seating rows)
8	Engine Type	A	RPO LCV, Engine Gas, 4 Cylinder, 2.5L, L4, SIDI, DOHC, DCVCP, VVT, E85 MAX, E0–E100, Aluminum
		N	RPO LGZ, Engine Gas, 6 Cylinder, 3.6L, V6, DI, DOHC, VVT, Aluminum, VAR2, GEN 2
		1	RPO LWN, Engine Diesel, 2.8L, DI, L4, DOHC, Turbo, XLDE
9	Check Digit	—	Check Digit
10	Model Year	K	2019
11	Plant Location	1	Wentzville, MO
12–17	Plant Sequence Number	—	Plant Sequence Number

2.5L (LCV) Engine ID and VIN Derivative Location

Engine Identificationk>

2.8L (LWN) Diesel Engine ID and VIN Derivative Location

Engine Identification

3.6L (LGZ) Engine ID and VIN Derivative Location

Engine Identificationnk>

6L50 (MYB) Transmission ID and VIN Derivative Location

Transmission Identification Information

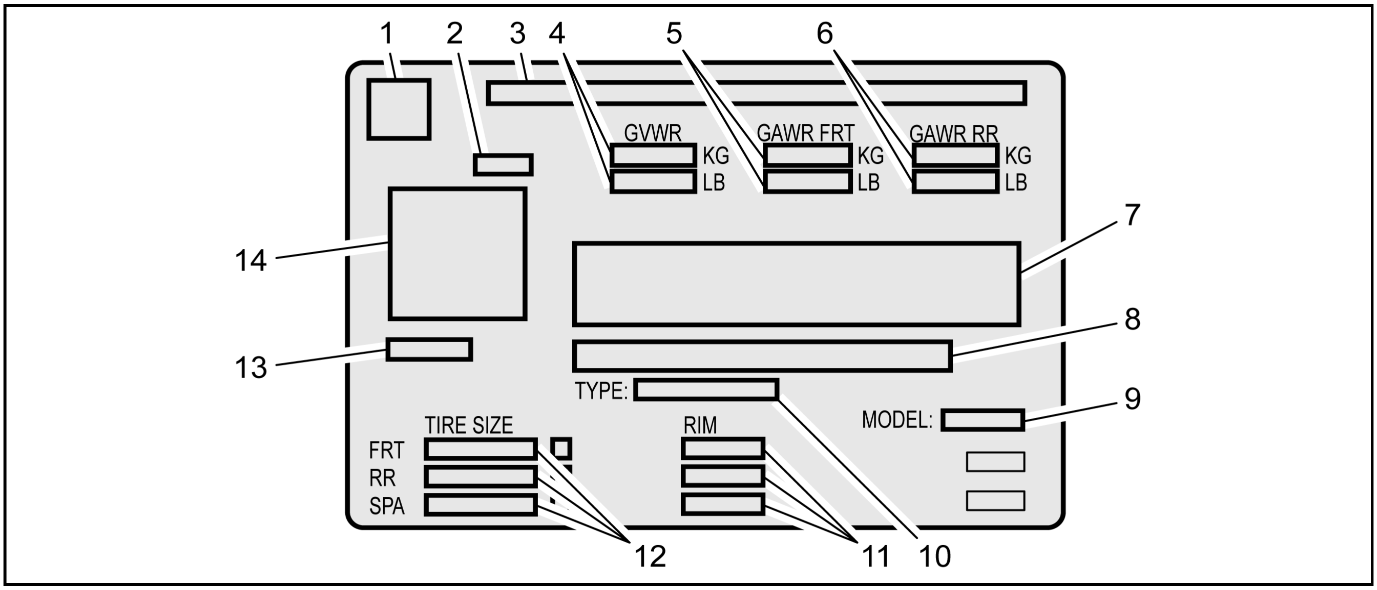
8L45 (M5T) Transmission ID and VIN Derivative Location

Transmission Identification Informationnk>

Eaton 6–Speed (N8D) Manual Transmission ID and VIN Derivative Location

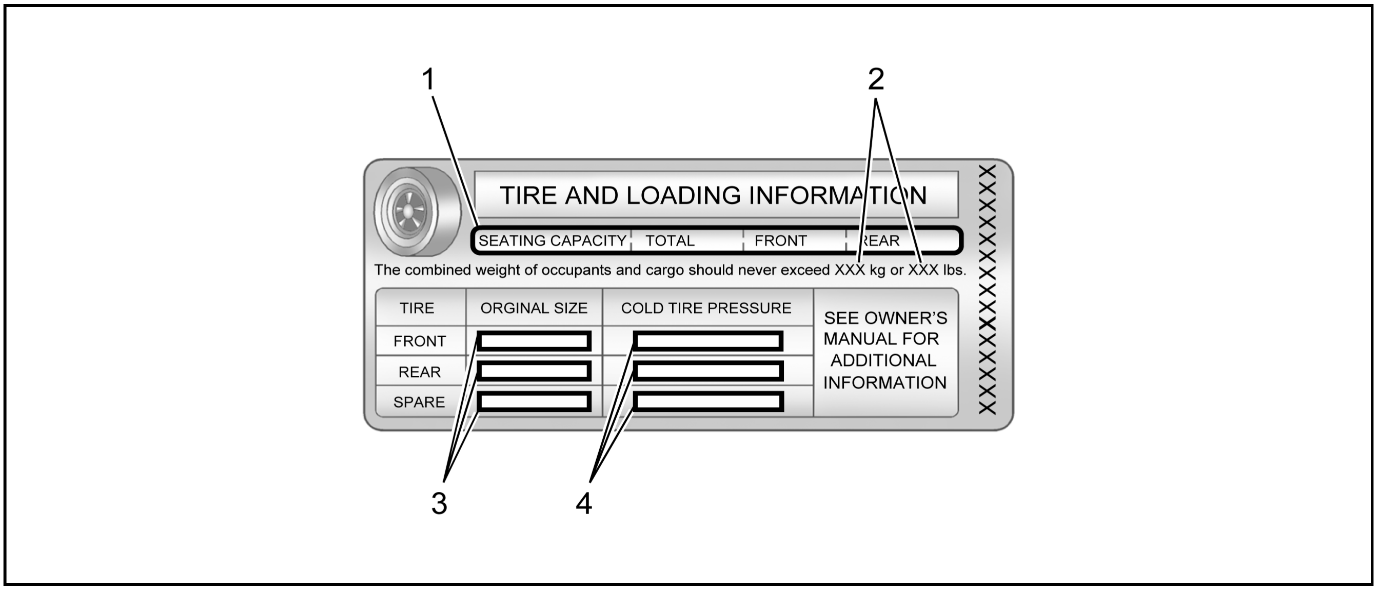
Transmission Identification Information

Vehicle Certification, Tire Placard, and Anti-Theft Label



Vehicle Certification Label

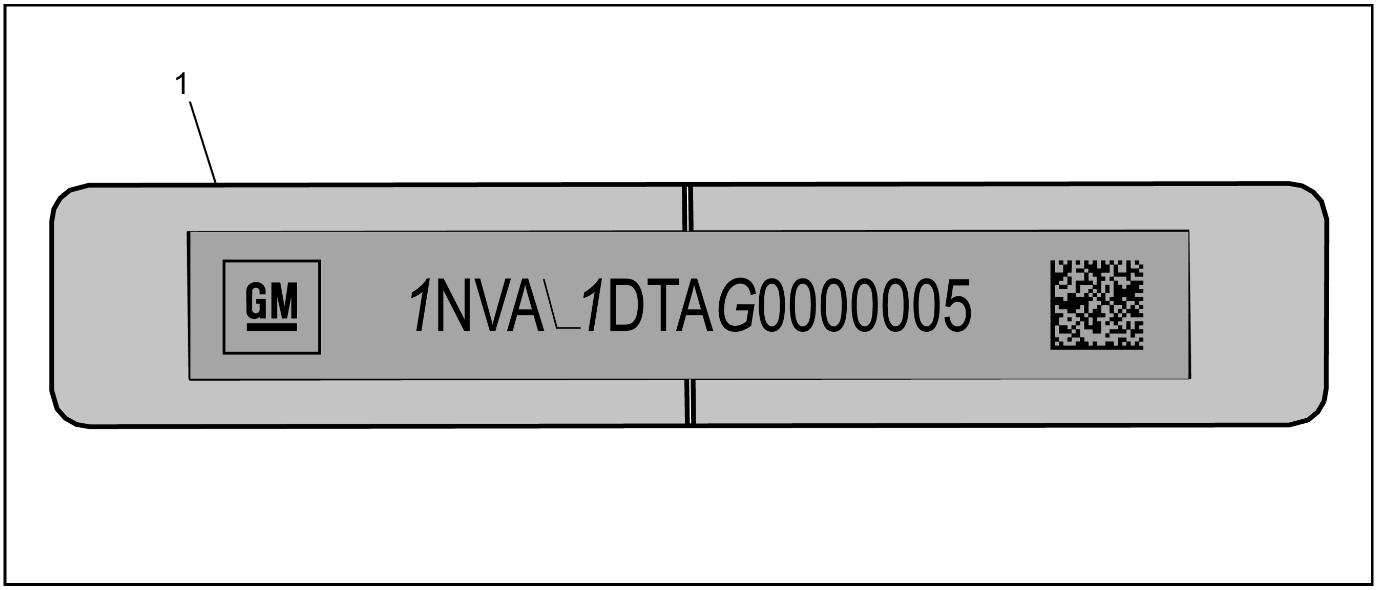
Callout	Description
A vehicle-specific Certification label is attached to the vehicle's center pillar (B-pillar) and displays the following assessments:	
1	Logo
2	Final Date of Manufacture (Month and Year MM/YY) Date of manufacture is to reflect the date that the vehicle is counted as built. In those cases where a replacement label is needed, the replacement label should reflect the actual build date not the date of replacement.
3	Name of Manufacturer
4	Maximum Gross Vehicle Weight Rating (GVWR)
5	Maximum Gross Axle Weight Rating (GAWR) - Front
6	Maximum Gross Axle Weight Rating (GAWR) - Rear
7	Certification Statement
8	Vehicle Identification Number (VIN)
9	Engineering Model Number
10	Vehicle Class Type (Pass Car, etc.)
11	Original Equipment Rim Size
12	Original Equipment Tire Size
13	Paint Code
14	QR Code Once the QR code is scanned, the information will appear in this order on your smartphone or laptop: VIN, Model Year, Model, Build Month, Year, Engineering Book, Vehicle Order Number, 3 Digit RPO Codes sorted alphanumerically and the Paint Code (same code appears the lower left of the QR code)


1
2
TIRE AND LOADING INFORMATION
SEATING CAPACITY
TOTAL
FRONT
REAR
The combined weight of occupants and cargo should never exceed XXX kg or XXX lbs.
TIRE
ORGINAL SIZE
COLD TIRE PRESSURE
FRONT
REAR
SPARE
SEE OWNER'S MANUAL FOR ADDITIONAL INFORMATION
XXXXXXXXXXXXXX
3
4

4962282

Tire Placard

Callout	Description
A vehicle-specific Tire and Loading Information label is attached to the vehicle's center pillar (B-pillar) and displays the following assessments:	
1	Specified Occupant Seating Positions
2	Maximum Vehicle Capacity Weight
3	Original Equipment Tire Size
4	Tire Pressure, Front, Rear, and Spare (Cold)


1
GM
1NVA⎿1DTAG0000005

4962289

Anti-Theft Label

Callout	Description
This legal identifier is in the front corner of the instrument panel, on the driver side of the vehicle. It can be seen through the windshield from outside. The Vehicle Identification Number (VIN) also appears on the Vehicle Certification and certificates of title and registration.	
1	Vehicle Identification Number (VIN)

RPO Code List

The following table provides the description of the Regular Production Option (RPO) codes that are available on the vehicle. The vehicle's RPO list is printed on the Service Parts Identification Label.

RPO	Description
01U	PRIMARY COLOR-EXTERIOR, SPECIAL (02)
4AA	INTERIOR TRIM-JET BLACK
4D7	INTERIOR TRIM-JET BLACK/DK ASH
4DP	INTERIOR TRIM-COCOA / DUNE
4EE	INTERIOR TRIM-JET BLACK/DK GALVANIZED WITH ICED BLUE ACCENT
4GB	INTERIOR TRIM-JET BLACK/ COBALT RED
5GD	CALIBRATION-TURN ON TOW/ HAUL MODE
5JY	ACCESSORY-TONNEAU - RR COMPT - SOFT FOLDING
5K2	ACCESSORY-DECAL PACKAGE - BODY SIDE, DESIGN 1
5VI	ACCESSORY-TIE DOWN RINGS - CARGO AREA
5VQ	ACCESSORY-PUBX BEDLINER - W/ INTEGRAL STORAGE COMPARTMENTS
5W7	ACCESSORY-AIR FILTER - PERFORMANCE
5WI	ACCESSORY-TIE DOWN RINGS - CARGO AREA, MOVEABLE
5WL	ACCESSORY-LOCK - SPARE WHEEL
5Y4	ACCESSORY-COVER - TRAILER HITCH TOW BALL
5YN	ACCESSORY-BADGE - INTERIOR TRIM, DESIGN 1
5ZB	ACCESSORY-CENTER CAP - WHEEL - DESIGN 5
62G	ACCESSORY-ACCENT LIGHTING - FRONT EXTERIOR
9B7	MIRROR AUX-O/S SPOT, CONVEX
9H3	FUEL TANK-76L, 20 GAL
9J4	BUMPER RR-(NONE)
A28	WINDOW RR-FULL WIDTH, SLIDING
AAK	ACCESSORY-FLOOR LINER - CONTOURED - ALT DESIGN 1
AAQ	ADJUSTER PASS ST-POWER, 4 WAY
ACO	IDENTIFICATION-ACCESSORY CATALOG OFFERING
AG1	ADJUSTER FRT ST-POWER, MULTI-DIRECTIONAL, DRIVER
AH6	ADJUSTER FRT ST-SEAT, POWER, 4 WAY, VERT, DRIVER
AJ2	SEAT RR-FOLDING, JUMPSEAT
AKJ	WINDSHIELD STYLE-SHADE BAND
AL9	LUMBAR DRIVER-SEAT, POWER, 2 WAY
AM7	SEAT RR-FOLDING
AR7	SEAT-FRT BKT, STANDARD
AT9	LUMBAR PASSENGER-SEAT, POWER, 2 WAY
ATG	LOCK CONTROL, ENTRY-REMOTE ENTRY, STANDARD RANGE
ATZ	SEAT RR-NONE
AXG	WINDOW REG DRVR DR-POWER OPERATED, EXPRESS UP/DOWN
AY0	RESTRAINT SYSTEM-SEAT, INFLATABLE, DRIVER & PASS FRT, SEAT SIDE, ROOF SIDE
B2E	SALES-SPRING SPECIAL PACKAGE
B30	COVERING FLOOR-CARPET
B34	COVERING FRT-FLOOR MATS, CARPETED INSERT
B35	COVERING REAR-FLOOR MATS, CARPETED INSERT
B38	COVERING FLOOR-VINYL, FRT & RR, FULL WIDTH
B7O	MOLDING WHL OPENING-FRT & RR, COLORED
BAE	EQUIPMENT-SECURITY SYSTEM, IMMOBILIZATION
BJA	PARTS PKG-TRUCK APPLICATION VAR.1
BPH	APPEARANCE PACKAGE-CHEVROLET "OFF ROAD"
BTV	REMOTE START-ENGINE
BW4	MOLDING B/S (OPEL)-EXTR, MLDG, SIDE WINDOW REVEAL, CHROME
BW5	MOLDING B/S (OPEL)-EXTR, MLDG, SIDE WINDOW REVEAL, BLACK
BW7	ORNAMENTATION-EXTR, PLR APLQ
BWN	STEPS-CORNER ASSIST, BUMPER
BYH	FOOT REST-DRIVER
C49	DEFOGGER-RR WINDOW, ELECTRIC
C67	HVAC SYSTEM-AIR CONDITIONER FRT, ELECTRONIC CONTROLS
C68	HVAC SYSTEM-AIR CONDITIONER FRT, AUTO, ELECTRONIC CONTROLS
C74	LAMP-INTR, ROOF, DUAL READING
CG6	ORNAMENTATION-EXTR, NAMEPLATE, VAR 1
CGN	LINER-PUBX, SPRAY ON
CPX	COVERING FRT-FLOOR MATS, CONTOURED
CPY	COVERING REAR-FLOOR MATS, CONTOURED
CTT	HITCH ASSIST-GUIDELINES
CV3	COUNTRY-MEXICO
D07	CONSOLE-FRT COMPT, FLOOR, CUSTOM
D31	MIRROR I/S R/V-TILT
D72	HANDLE O/S DOOR-BLACK
D75	HANDLE O/S DOOR-BODY COLOR

RPO	Description
D87	HANDLE, REAR CLOSURE-O/S, L/GATE, R/CMPT, BLACK
DBI	MIRROR O/S-LH & RH, MANUAL CONTROL, MANUAL FOLDING
DD8	MIRROR I/S R/V-LT SENSITIVE
DEG	SUNSHADE-DRIVER, W/MIRROR, COVER, ILLUM, SLIDING, PASS, W/MIRROR, COVER, ILLUM,SLIDING
DG6	MIRROR O/S-LH & RH, REMOTE CONTROL, ELECTRIC, MANUAL FOLDING,HEATED, COLOR
DK6	CONSOLE ROOF-INTERIOR
DL6	MIRROR O/S-LH & RH, REMOTE CONTROL, ELECTRIC, MANUAL FOLDING,COLOR
DL9	MIRROR O/S-LH & RH, REMOTE CONTROL, ELECTRIC, HEATED, CHROME
DLU	MIRROR I/S FRT VAN-SUNSHADE, DRIVER, W/O MIRROR, PASS, W/MIRROR & COVER
DNS	EQUIPMENT-SUPPLIER INSTALLED
E15	STEPS-ASSIST, CHROME
E20	HANDLE O/S DOOR-CHROME
E25	ACCESSORY-ASSIST STEPS - TUBULAR - CHROME
E33	HANDLE-I/S, DR, GLOSSY CHROME
E49	HANDLE-I/S, DR, JET BLACK
E63	BODY EQUIPMENT-FLEETSIDE PICK-UP BOX
EF7	COUNTRY-UNITED STATES OF AMERICA (USA)
EN5	END GATE–LOCKING-
FE9	CERTIFICATION-EMISSION, FEDERAL
FHX	VEHICLE FUEL-DIESEL B20
FJW	VEHICLE FUEL-GASOLINE E15
FX3	RIDE AND HANDLING-AUTOMATIC ELECTRONIC CONTROLLED
G16	PRIMARY COLOR-EXTERIOR, CRUSH-1 (413C)
G6O	PRIMARY COLOR-EXTERIOR, SEEKER MET -1 (617D)
G7C	PRIMARY COLOR-EXTERIOR, PULL ME OVER RED SOLID (130X)
G80	AXLE POSITRACTION-LIMITED SLIP
G93	AXLE-FRT ELECTRONIC LOCKING DIFFERENTIAL, DRIVER SELECT
G94	AXLE-RR ELECTRONIC LOCKING DIFFERENTIAL, DRIVER SELECT
G9K	PRIMARY COLOR-EXTERIOR, SATIN STEEL GRAY MET-3 (464C)
GAN	PRIMARY COLOR-EXTERIOR, SWITCHBLADE SILVER MET (G) 636R
GAT	APPEARANCE PACKAGE-GMC "ALL TERRAIN"

RPO	Description
GAZ	PRIMARY COLOR-EXTERIOR, SUMMIT WHITE (G) 8624
GBA	PRIMARY COLOR-EXTERIOR, BLACK (G) 8555
GD1	PRIMARY COLOR-BLUE ME AWAY MET (388A)
GJI	PRIMARY COLOR-EXTERIOR, DARK SHADOW MET -1 (626D)
GM6	PRIMARY COLOR-EXTERIOR, ZANZIBAR MET -1 (630D)
GPJ	PRIMARY COLOR-GLORY RED TINT-2 (434B)
GS6	PRIMARY COLOR-EXTERIOR, SCORPION MET -1 (634D)
GT5	AXLE REAR-4.10 RATIO
GU6	AXLE REAR-3.42 RATIO
H0K	INTERIOR TRIM CONFIG-LEATHER, LEVEL 3, COCOA / DUNE
H0U	INTERIOR TRIM CONFIG-CLOTH, LEVEL 2, JET BLACK
H2Q	INTERIOR TRIM CONFIG-VINYL, LEVEL 1, JET BLACK /DK ASH
H2R	INTERIOR TRIM CONFIG-CLOTH, LEVEL 1, JET BLACK/ DK ASH
H2S	INTERIOR TRIM CONFIG-CLOTH, LEVEL 2, JET BLACK / DK ASH
H2T	INTERIOR TRIM CONFIG-CLOTH, LEVEL 2, COCOA / DUNE
H2U	INTERIOR TRIM CONFIG-LEATHER, LEVEL 3, JET BLACK
H2V	INTERIOR TRIM CONFIG-LEATHER, LEVEL 3, JET BLACK / DK ASH
H2X	INTERIOR TRIM CONFIG-LEATHER, LEVEL 4, JET BLACK
HH1	INTERIOR TRIM CONFIG-CLOTH, LEVEL 4, JET BLACK / DK GALVANIZED WITH ICED BLUE ACCENT
HH3	INTERIOR TRIM CONFIG-LEATHER, LEVEL 1, JET BLACK / DK GALVANIZED WITH ICED BLUE ACCENT
HJX	INTERIOR TRIM CONFIG-CLOTH, LEVEL 4, JET BLACK / COBALT RED
HQ1	INTERIOR TRIM CONFIG-LEATHER, LEVEL 1, JET BLACK / COBALT RED
I19	ENGINEERING YEAR-2019
IOR	RADIO-INFOTAINMENT SYSTEM - 3.X LOW HMI, MIDLEVEL CONNECTIVITY 3.X
IOS	RADIO-INFOTAINMENT SYSTEM - 3.X MID/HIGH HMI, ENHANCED CONNECTIVITY, VOICE RECOGNITION, MID SD NAV CAPABLE
IOT	RADIO-INFOTAINMENT SYSTEM - 3.X MID/HIGH HMI, ENHANCED CONNECTIVITY, VOICE RECOGNITION, PREMIUM SD NAV
JHD	CONTROL-HILL DESCENT, GEAR HOLD
JL1	CONTROL-INTEGRATED TRAILER BRAKE

RPO	Description
JL9	BRAKE SYSTEM-PWR, FRT & RR DISC, ANTILOCK, FRT & RR WHL
K05	HEATER ENG-BLOCK
K34	CRUISE CONTROL-AUTOMATIC, ELECTRONIC
K40	ENGINE BRAKE-EXHAUST
K4C	CHARGER-INDUCTIVE PORTABLE WIRELESS DEVICE
KA1	HEATER SEAT FRT-DRVR & PASS
KG4	GENERATOR-150 AMP
KG9	GENERATOR-140 AMP
KU1	VENTILATED SEAT DRVR-FRONT
KU3	VENTILATED SEAT PASS-FRONT
LCV	ENGINE-GAS, 4 CYL, 2.5L, L4, SIDI, DOHC, DCVCP, VVT, E85 MAX, E0-E100, ALUM
LGZ	ENGINE-GAS, 6CYL, 3.6L, V6, DI, DOHC, VVT, ALUM, VAR2, GEN 2
LHD	VEHICLE DRIVE-LEFTHAND DRIVE
LWN	ENGINE-DIESEL, 2.8L, DI, L4, DOHC, TURBO, XLDE
M5T	TRANSMISSION-AUTO 8 SPD, 8L45
MCR	RECEPTACLE-MEMORY CARD
MYB	TRANSMISSION-AUTO 6 SPD, 6L50
N30	STEERING WHEEL-DELUXE
N33	STEERING COLUMN-TILT TYPE
N37	STEERING COLUMN-TILT, TELESCOPING
N8D	TRANSMISSION-MAN 6 SPD, 85MM, 4.45 1ST, 2.56 2ND, 1.53 3RD, 1.00 4TH, 0.87 5TH, 0.76 6TH
NAA	ACCESSORY-ROCKER GUARD - TUBULAR
NE1	CERTIFICATION-EMISSION, GEOGRAPHICALLY RESTRICTED REGISTRATION FOR VEHICLES UP TO 14, 000 LBS GVW (USE 2003 MDL YR
NE8	EVAPORATIVE SYSTEM-LEVEL 3 EMISSIONS
NP5	STEERING WHEEL-LEATHER WRAPPED
NQ6	TRANSFER CASE-2 SPD, ACTIVE, PART TIME 4WD, L/H DROP, LOW RATIO 2.72:1
NQ7	TRANSFER CASE-2 SPD, SWITCH ACTIVATED, PART TIME 4WD, L/H DROP, LOW RATIO 2.72:1
NTB	EMISSION SYSTEM-FEDERAL, TIER 3
NUB	EMISSION SYSTEM-CALIFORNIA, ULEV70
NUF	EMISSION SYSTEM-CALIFORNIA, ULEV125
NW9	TRACTION CONTROL-ELECTRONIC
NY7	SHIELD-TRANSFER CASE
PPA	EQUIPMENT-ASSIST, OPEN & CLOSE, TAILGATE
PZ9	PLATE-SKID, FUEL TANK
PZG	PLATE-SKID FRT

RPO	Description
PZL	PLATE-SKID RR DIFFERENTIAL
PZN	PLATE-SKID TRANSFER CASE
PZX	WHEEL-18 X 8.5, J, ALUMINUM, DESIGN 2
Q5U	WHEEL-17 X 8.0, J, ALUMINUM, DESIGN 2
Q5W	WHEEL-17 X 8.0, J, ALUMINUM, DESIGN 1
QDC	TIRE SPARE-T175/90D18 LL 111M BW SPR
QHE	TIRE ALL-255/65R17 SL 110T BW AT
QHR	TIRE ALL-255/65R17 SL 110T BW ALS
QIA	TIRE ALL-265/60R18 SL 110T BW AL2
QJ2	TIRE ALL-265/65R17 SL 112S BW AT VAR1
QJJ	TIRE ALL-265/70R16 SL 112T BW ALS
QQD	TIRE ALL-P255/55R20 SL 107H BW AL3
R1U	WHEEL-17 X 8.0, J, ALUMINUM, DESIGN 3
R28	WHEEL-17 X 8.0, J, ALUMINUM, DESIGN 4
R34	WHEEL-17 X 8.0, J, ALUMINUM, DESIGN 5
R88	ACCESSORY-ILLUMINATED EMBLEM - EXTERIOR - DESIGN 2
RCV	WHEEL-18 X 8.5, J, ALUMINUM, DESIGN 4
RDI	ACCESSORY-KEYLESS ENTRY
RGO	ACCESSORY TIRE-TIRE ALL - 265/65R17 SL 112S BSL MT VAR 1
RIA	ACCESSORY-FLOOR LINER - CONTOURED
RID	WHEEL-17 X 8.0, J, ALUMINUM, DESIGN 6
RIF	WHEEL-17 X 8.0, J, ALUMINUM, DESIGN 7
RIG	WHEEL-17 X 8.0, J, ALUMINUM, DESIGN 8
RIK	ACCESSORY-BADGE - EXTERIOR, PACKAGE, DESIGN 1
RN2	ACCESSORY-ILLUMINATED EMBLEM - EXTERIOR - DESIGN 1
RQ9	WHEEL-20 X 8.5, J, ALUMINUM, DESIGN 1
RS1	WHEEL-16 X 7.0, J, ALUMINUM, DESIGN 1
RS2	WHEEL-16 X 7.0, J, STEEL, DESIGN 1
RSZ	WHEEL-18 X 7.5, J, ALUMINUM, DESIGN 1
RT5	WHEEL-18 X 8.5, J, ALUMINUM, DESIGN 1
RTX	WHEEL SPARE-18 X 4.5, B, ALUMINUM, DESIGN 1
RVG	ACCESSORY-ADAPTER - TRAILER HARNESS
RVP	ACCESSORY-ASSIST STEPS - REMOVABLE
RVS	ACCESSORY-ASSIST STEPS - TUBULAR - ROUND - BLACK
RVY	ACCESSORY-PUBX CARGO DIVIDER
RW2	ACCESSORY-BED RAILS - BLACK
RW6	ACCESSORY-BED STORAGE BOX - FIXED FULL WIDTH - METAL
RWI	ACCESSORY-BODY SIDE MOLDINGS - CHROME
RWK	ACCESSORY-BODY SIDE MOLDINGS - PAINTED

RPO	Description
RWR	ACCESSORY-CAMERA - REAR VISION
RWS	ACCESSORY-FLOOR MATS - CARPET
RX3	ACCESSORY-EXTR, BOWTIE DESIGN 2
RXH	ACCESSORY-CENTER CAP - WHEEL - DESIGN 1
RXJ	ACCESSORY-CENTER CAP - WHEEL - DESIGN 2
RXQ	ACCESSORY-CONVENIENCE NET - BED MOUNTED
RYT	ACCESSORY-FIRST AID KIT
RZB	ACCESSORY-GRILLES/GRILLE INSERT - ALTERNATE DESIGN 2
RZO	ACCESSORY-WHEEL - 20" - ALUMINUM - DESIGN 9
RZW	ACCESSORY-HARNESS - TRAILER HITCH
S08	ACCESSORY-HIGHWAY SAFETY KIT
S0Y	ACCESSORY-LAMPS - CARGO AREA
S1K	WHEEL SPARE-16 X 7.0, J, STEEL, DESIGN 1
S3U	ACCESSORY-LAMP KIT - FRONT FOG
S3X	ACCESSORY-LAMPS - FRONT ROOF MOUNTED - OFF-ROAD
S42	ACCESSORY-LOAD STOPS - UTILITY RACK
S47	ACCESSORY-LUG NUTS
S4M	WHEEL SPARE-17 X 8.0, J, ALUMINUM, DESIGN 2
S4P	WHEEL SPARE-17 X 8.0, J, ALUMINUM, DESIGN 1
S4S	WHEEL SPARE-17 X 8.0, J, ALUMINUM, DESIGN 3
S52	ACCESSORY-MOLDED HOOD PROTECTOR - SMOKED
S53	ACCESSORY-MOLDING - UPPER ACCENT
S6L	ACCESSORY-PROTECTOR - ROCKER PANEL
S6P	ACCESSORY-REMOTE START KIT
S6W	ACCESSORY-SEAT COVER - MUDDER (PROTECTIVE)
S6Z	ACCESSORY-SEAT COVER - TAILORED - ALTERNATE MATERIAL
SA5	ACCESSORY-SHIELD - UNDERBODY
SAO	ACCESSORY-SMOKERS PACKAGE
SAS	ACCESSORY-SPARE TIRE CARRIER - REAR
SB7	ACCESSORY-DECAL PACKAGE - DESIGN 1
SB8	ACCESSORY-SPOILER/MOLDING/ PROTECTOR - TAILGATE
SBY	ACCESSORY-SPORT BAR - BED MOUNTED - DESIGN 1
SCU	ACCESSORY-SPORT BAR - BED MOUNTED - DESIGN 2

RPO	Description
SCZ	ACCESSORY-TAILGATE HANDLE - ALTERNATE FINISH - CHROME
SD5	ACCESSORY-TIRE PRESSURE MONITOR
SDE	ACCESSORY-TRAILER HITCH - REMOVABLE
SDI	ACCESSORY-TRIANGLE - REFLECTIVE
SDS	ACCESSORY-WEATHER DEFLECTORS - SIDE WINDOW - SMOKED
SE0	ACCESSORY-WHEEL - 17" - ALUMINUM - DESIGN 1
SE4	ACCESSORY-WHEEL - 18" - ALUMINUM - DESIGN 1
SE5	ACCESSORY-WHEEL - 18" - ALUMINUM - DESIGN 2
SE6	ACCESSORY-WHEEL - 18" - ALUMINUM - DESIGN 3
SE7	ACCESSORY-WHEEL - 18" - ALUMINUM - DESIGN 4
SF5	ACCESSORY-WHEEL FLARES - ALTERNATE DESIGN - MOLDED COLOR
SF6	ACCESSORY-WHEEL FLARES - ALTERNATE DESIGN - PAINTED
SFE	ACCESSORY-WHEEL LOCKS
SG1	ACCESSORY-EMBLEM - EXTERIOR - DESIGN 2
SIE	ACCESSORY-PUBX TIERED STORAGE
SIF	ACCESSORY-RSE - PORTABLE MEDIA CONNECTIVITY PACKAGE
SIQ	ACCESSORY-SKID PLATES - FRONT DESIGN 1
SIR	ACCESSORY-SKID PLATES - REAR DESIGN 1
SIZ	ACCESSORY-PUBX CARGO DIVIDER - ALTERNATE DESIGN
SJ8	ACCESSORY-ILLUMINATION PACKAGE - INTERIOR AMBIENT
SKY	ACCESSORY-WHEEL - 18 X 8.5 - J - ALUMINUM - DESIGN 1
SKZ	ACCESSORY-WHEEL - 18 X 8.5 - J - ALUMINUM - DESIGN 2
SL7	ACCESSORY-PUBX LADDER / UTILITY RACK STANCHIONS
SM2	ACCESSORY-BADGE - INTERIOR TRIM, DESIGN 2
SMG	ACCESSORY-NAMEPLATE- EXTERIOR - RR FASCIA - DESIGN 1
SMY	ACCESSORY-WHEEL - 17 X 8.0 - J - ALUMINUM - DESIGN 1
SPY	ACCESSORY-LUG NUTS - ALT FINISH
SPZ	ACCESSORY-WHEEL LOCKS - ALT FINISH
T3C	HEADLAMP FUNCTION-PROJECTOR, LOW/HIGH BEAM
T3U	LAMP FRT FOG-FRT FOG
T4A	HEADLAMPS-HALOGEN

RPO	Description
T4Z	SEAT BELT SAFETY SYS-SHIFTER INTERLOCK, GEN 1, NON-CUSTOMIZABLE
TCA	LAMP-DOME, CENTER
TCK	DEFLECTOR-RR TIRE, AIR
TDM	MODE-TEEN DRIVER SETTINGS
TR0	LAMP-INTR, ROOF, RR, COURTESY & DUAL READING
U19	SPEEDOMETER-INST, KILO & MILES, KILO ODOMETER
U2K	DIGITAL AUDIO SYSTEM-S-BAND
U2L	RECEPTION-HD
U73	ANTENNA-FIXED, RADIO
UD7	PARK ASSIST-REAR
UDC	DISPLAY INSTRUMENT-DRIVER INFO ENHANCED (ONE COLOR GRAPHIC)
UDD	DISPLAY INSTRUMENT-DRIVER INFO ENHANCED (MULTI COLOR STANDARD GRAPHIC)
UE1	COMMUNICATION SYSTEM-VEHICLE, ONSTAR
UEU	SENSOR INDICATOR-FORWARD COLLISION ALERT
UF2	LAMP-CARGO
UFL	LANE ACTIVE SAFETY-DEPARTURE WARNING
UG0	LAMP-CARGO, BED RAIL
UGA	HOOK-TOW, RED
UHN	WHEEL-18 X 8.5, J, ALUMINUM, DESIGN 3
ULV	MERCHANDISED PKG-CHEVROLET BISON
UMN	SPEEDOMETER-INST, MILES & KILO, MILES ODOMETER
UQ3	SPEAKER SYSTEM-ENHANCED AUDIO
UQA	SPEAKER SYSTEM-PREMIUM AUDIO, BRANDED AMPLIFIER
USS	RECEPTACLE-USB CHARGE PORT
UST	RECEPTACLE-DUAL USB, SINGLE AUX
UTJ	THEFT DETERENT-ELECTRICAL, UNAUTHORIZED ENTRY
UVB	VISION-REAR VIEW, MONO, HD DIGITAL
UVC	VISION-REAR VIEW, MONO, ANALOG
UVD	STEERING WHEEL HEAT-MANUAL
V3L	GRILLE-RADIATOR, BRIGHT CHROME
V8X	ACCESSORY-SILL PLATES - ALTERNATE DESIGN 2
VAS	ACCESSORY-GRILLE / GRILLE INSERTS - ALTERNATE FINISH - BODY COLOR
VAT	ACCESSORY-GRILLE / GRILLE INSERTS - ALTERNATE FINISH - CHROME
VAV	ACCESSORY-FLOOR MATS - ALL WEATHER
VBR	ACCESSORY-PUBX RUBBER MAT
VHU	BUMPER FRT-SPORT
VJG	BUMPER RR-BLACK
VJH	BUMPER RR-CHROME
VJQ	HOOK-TOW, FRT
VK3	LICENSE PLATE FRONT-FRT MOUNTING PKG
VKU	ACCESSORY-MIRROR CAPS - CHROME
VKY	ACCESSORY-DOOR HANDLES - ALTERNATE FINISH - CHROME
VPB	ACCESSORY-TONNEAU - RR COMPT - VINYL W/ INTEGRAL CROSSBOW SUPPORTS
VQH	BUMPER-RR, VAR 1
VQK	ACCESSORY-SPLASH GUARDS - CUSTOM MOLDED
VQY	ACCESSORY-TOW HOOKS - CHROME
VQZ	ACCESSORY-EXHAUST TIP - DESIGN 1
VST	ACCESSORY-SILL PLATES - ALTERNATE DESIGN 1
VT5	BUMPER RR-COLOR KEYED
VT7	OWNERS MANUAL-ENGLISH LANGUAGE
VTG	ACCESSORY-INTERIOR TRIM KIT
VUK	ACCESSORY-TAILGATE LINER - PUBX
VV4	COMMUNICATION EQUIP-MOBILE INTERNET CONNECTIVITY
VW9	ACCESSORY-CENTER CAP - WHEEL - DESIGN 3
VWD	ACCESSORY-CENTER CAP - WHEEL - DESIGN 4
VYQ	ACCESSORY-STRIPE PACKAGE - HOOD AND FENDER - BLACK
VZX	ACCESSORY-PUBX BEDLINER
W0H	ACCESSORY-TOW HOOKS - ALT FINISH
W1Y	CONTROL-STEERING WHEEL, RADIO, REDUNDANT CONTROLS
WBC	ACCESSORY-EXHAUST UPGRADE
WEN	PLANT CODE-WENTZVILLE, MO, USA
WGQ	SALES PACKAGE-REDLINE
WJP	SALES PACKAGE-MIDNIGHT EDITION
WMK	VIN MODEL YEAR-2019
WOJ	ACCESSORY-DOOR COVER - PET PROTECTOR - DESIGN 1
WPD	SALES PACKAGE-SAFETY
WPK	SALES PACKAGE-SPORT PACK
X88	MARKET BRAND-CHEVROLET
XAE	ACCESSORY TIRE-TIRE ALL-P255/55R20 SL 107H BW AL3 VAR 1
XAJ	ACCESSORY TIRE-TIRE-265/60R18 SL 110T BW AL2 - VAR1
Y91	MERCHANDISED PKG-LUXURY EDITION
YF5	CERTIFICATION-EMISSION, CALIFORNIA

RPO	Description
YM8	IDENTIFICATION-LIMITED PERSONALIZATION OPTION (LPO)
Z49	COUNTRY-CANADA
Z71	CHASSIS PACKAGE-"OFF ROAD"
Z82	TRAILER PROVISIONS-SPECIAL EQUIPMENT, H.D.
Z85	CHASSIS PACKAGE-INCREASED CAPACITY
Z88	MARKET BRAND-GMC
ZJJ	TIRE SPARE-265/70R16 SL 112T BW ALS

RPO	Description
ZJP	TIRE SPARE-265/65R17 SL 112S BW AT VAR1
ZQ9	APPEARANCE PACKAGE-EXTERIOR TRIM, BLACK OUT
ZR2	CHASSIS PACKAGE-HIGH WIDER PERFORMANCE, 4 X 4 SPORT
ZW9	BODY EQUIPMENT-BASE BODY OR CHASSIS
ZY1	COLOR COMBINATION-SOLID

Section 2

Body Systems

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    Outside Mirror Description and Operation 2-32

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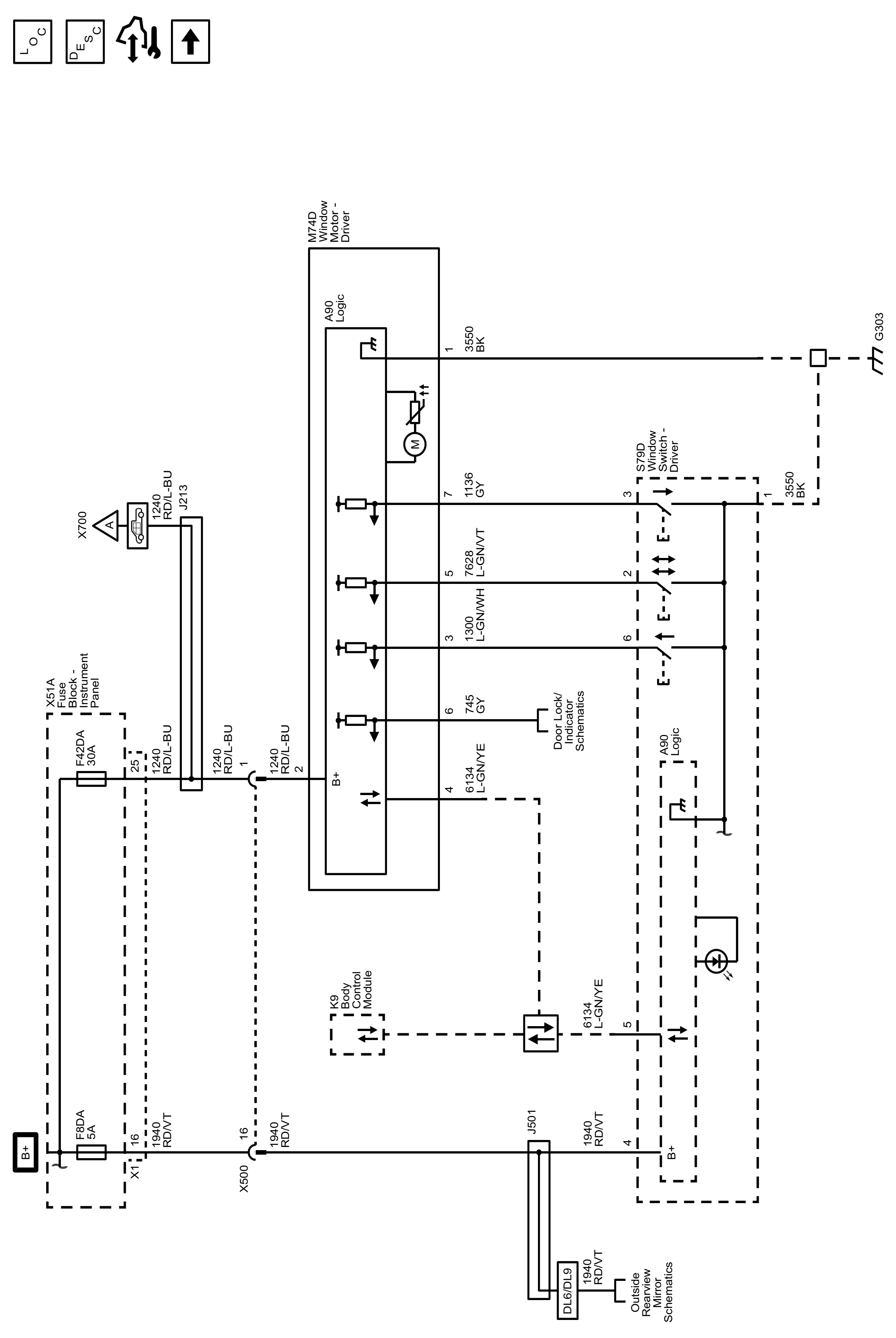
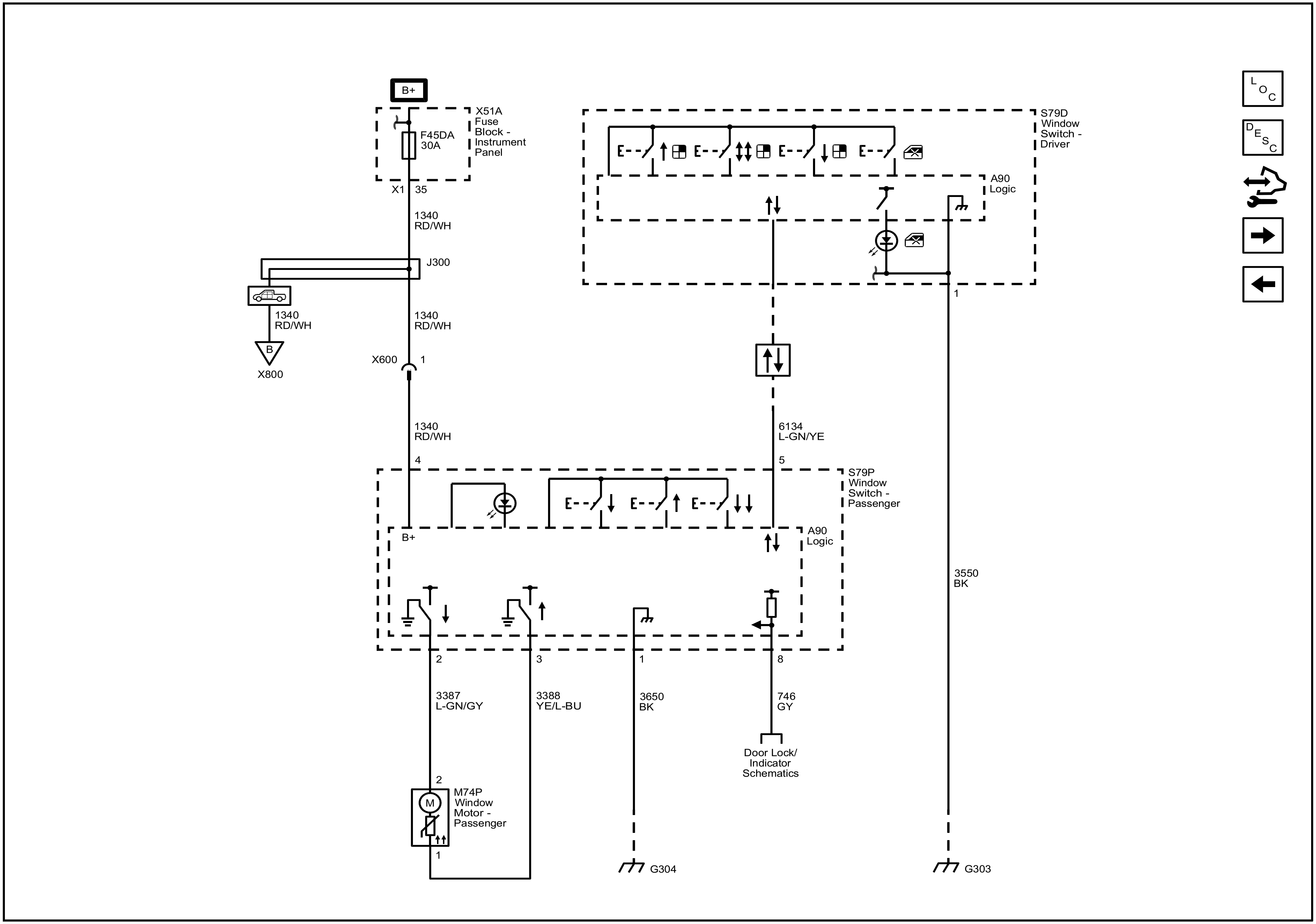
Fixed and Moveable Windows

Schematic and Routing Diagrams

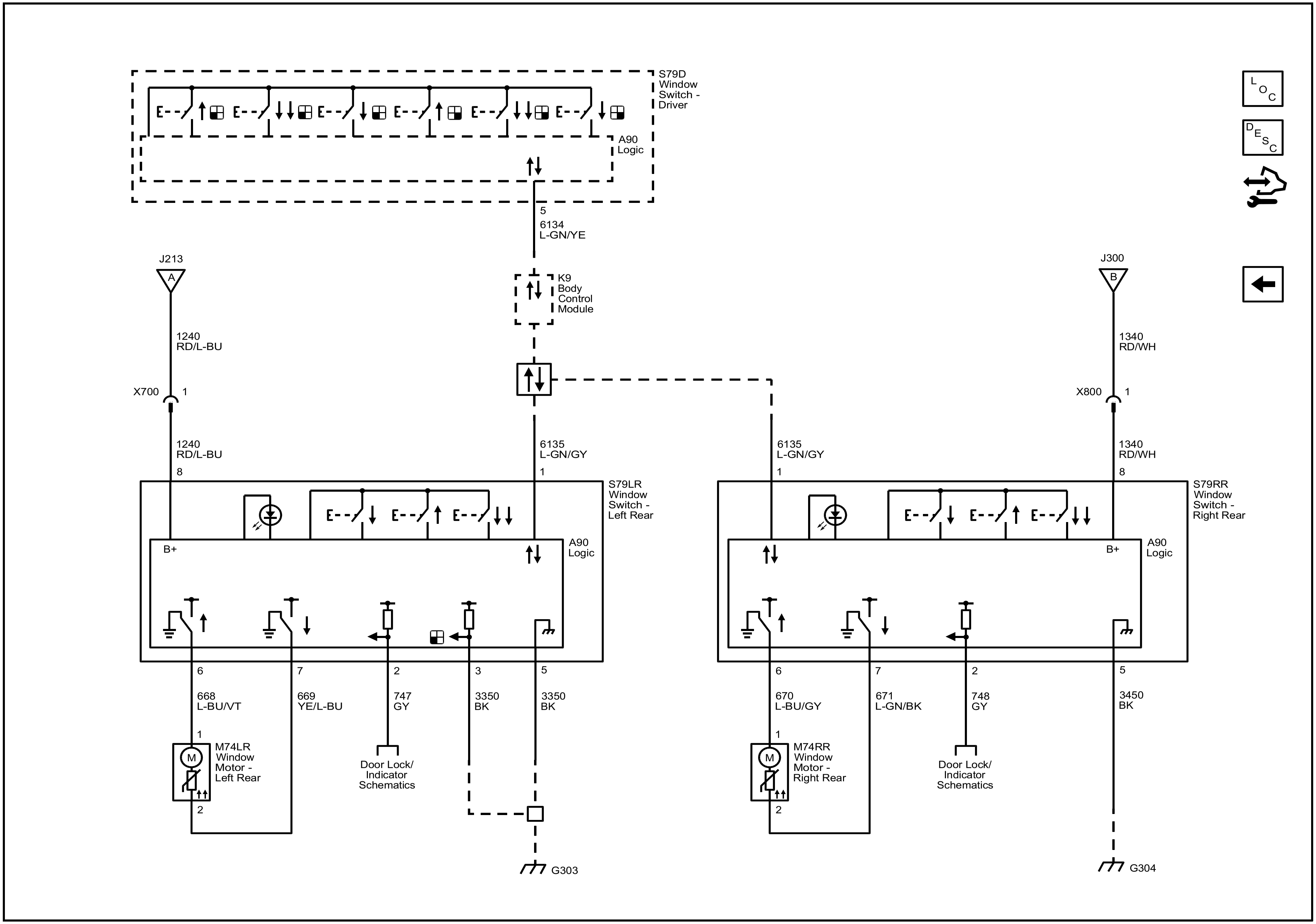
Moveable Window Schematics (Driver Door)


4944931
LOC
DESC
B+
X51A Fuse Block - Instrument Panel
F8DA 5A
F42DA 30A
16
25
X1
1940 RD/VT
1240 RD/L-BU
X700
A
J213
X500
1
2
16
M74D Window Motor - Driver
A90 Logic
B+
1 3550 BK
7 1136 GY
5 7628 L-GN/VT
3 1300 L-GN/WH
6 745 GY
4 6134 L-GN/YE
M
G303
S79D Window Switch - Driver
3
2
6
1 3550 BK
Door Lock/ Indicator Schematics
A90 Logic
K9 Body Control Module
6134 L-GN/YE
5
J501
4
B+
DL6/DL9
Outside Rearview Mirror Schematics

Moveable Window Schematics (Passenger Door)

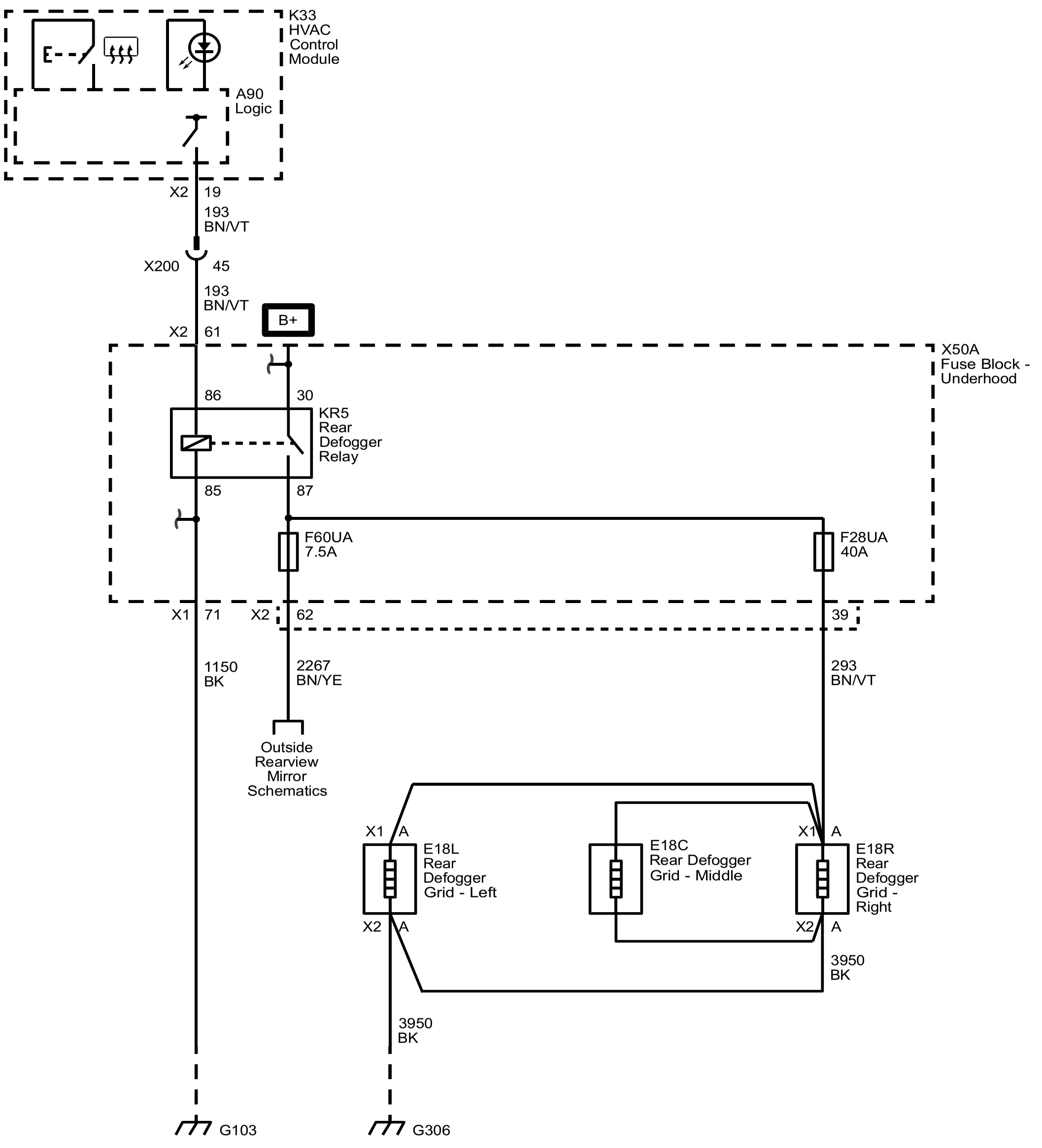

B+
X51A
Fuse
Block -
Instrument
Panel
F45DA
30A
X1 35
1340
RD/WH
J300
1340
RD/WH
B
X800
1340
RD/WH
X600 1
1340
RD/WH
4
S79D
Window
Switch -
Driver
A90
Logic
1
6134
L-GN/YE
5
S79P
Window
Switch -
Passenger
A90
Logic
B+
2
3
1
8
3387
L-GN/GY
3388
YE/L-BU
3650
BK
746
GY
Door Lock/
Indicator
Schematics
3550
BK
2
M74P
Window
Motor -
Passenger
M
1
G304
G303
L O C
D E S C
4944932

Moveable Window Schematics (Rear Doors)


L O C
D E S C
S79D
Window
Switch -
Driver
A90
Logic
5
6134
L-GN/YE
J213
A
K9
Body
Control
Module
J300
B
1240
RD/L-BU
1340
RD/WH
X700
1
X800
1
1240
RD/L-BU
8
6135
L-GN/GY
1
6135
L-GN/GY
1
1340
RD/WH
8
S79LR
Window
Switch -
Left Rear
A90
Logic
B+
S79RR
Window
Switch -
Right Rear
A90
Logic
B+
6
668
L-BU/VT
7
669
YE/L-BU
2
747
GY
3
3350
BK
5
3350
BK
1
M74LR
Window
Motor -
Left Rear
2
M
Door Lock/
Indicator
Schematics
G303
6
670
L-BU/GY
7
671
L-GN/BK
2
748
GY
5
3450
BK
1
M74RR
Window
Motor -
Right Rear
2
M
Door Lock/
Indicator
Schematics
G304

4944933

Defogger Schematics (Defogger (C49))


K33
HVAC
Control
Module
A90
Logic
X2 19
193
BN/VT
X200 45
193
BN/VT
B+
X2 61
X50A
Fuse Block -
Underhood
86
30
KR5
Rear
Defogger
Relay
85
87
F60UA
7.5A
F28UA
40A
X1 71
X2 62
39
1150
BK
2267
BN/YE
293
BN/VT
Outside
Rearview
Mirror
Schematics
X1 A
E18L
Rear
Defogger
Grid - Left
X2 A
E18C
Rear Defogger
Grid - Middle
X1 A
E18R
Rear
Defogger
Grid -
Right
X2 A
3950
BK
3950
BK
G103
G306
4944934

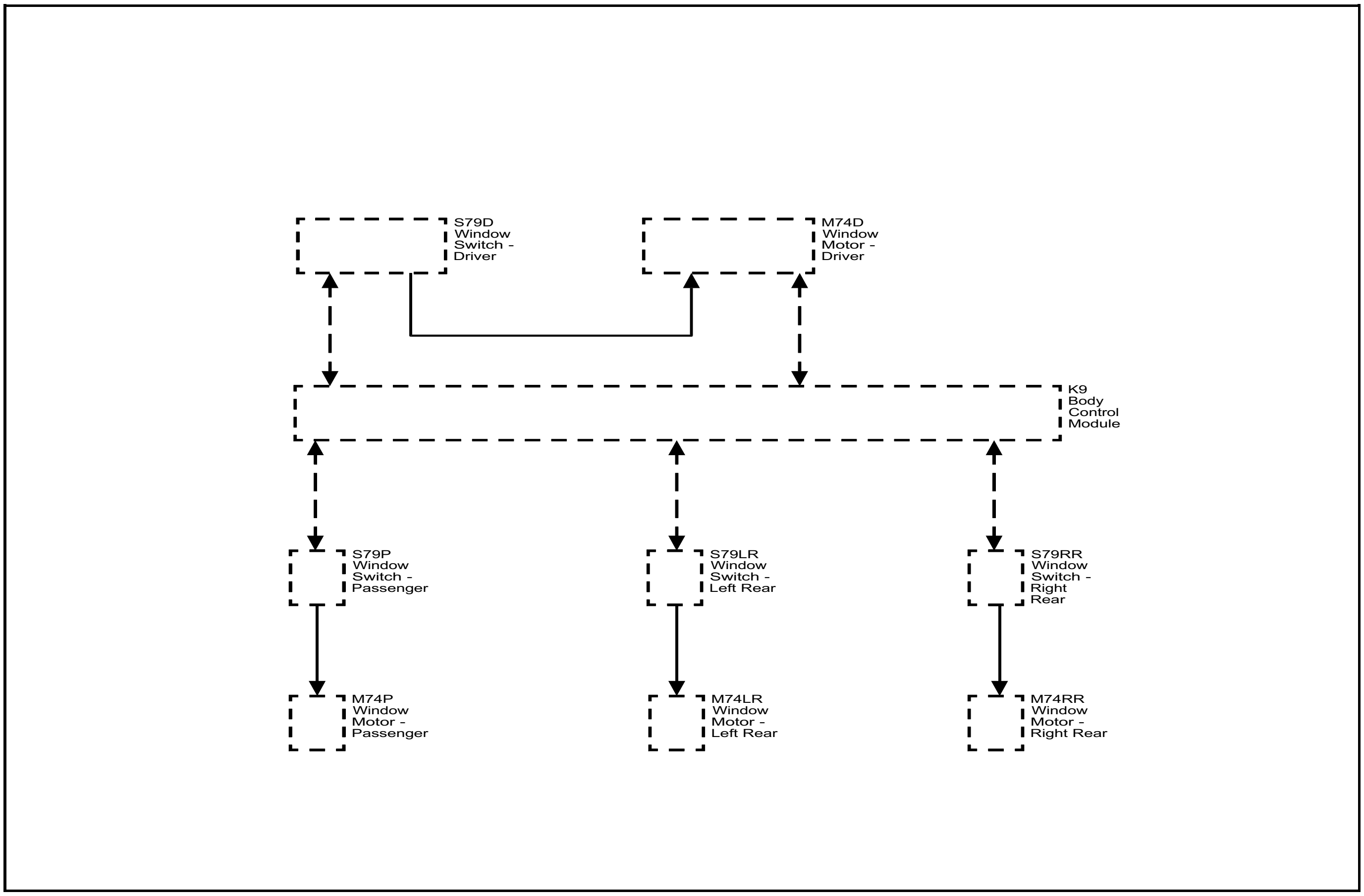
Description and Operation

Power Windows Description and Operation

Power Windows System Components

The power window system consists of the following components:

- Driver window switch
- Passenger window switch
- Left rear window switch
- Right rear window switch
- Right rear door latch
- Left rear door latch
- Window motors in each of the doors
- 30A Fuse
- Body control module (BCM)


S79D Window Switch - Driver
M74D Window Motor - Driver
K9 Body Control Module
S79P Window Switch - Passenger
S79LR Window Switch - Left Rear
S79RR Window Switch - Right Rear
M74P Window Motor - Passenger
M74LR Window Motor - Left Rear
M74RR Window Motor - Right Rear

3461357

Driver Express Up and Express Down Power Window Motor

The driver door contains a window motor is smart motor that will detect excessive resistance while performing the express up function and automatically reverse direction to prevent injury to any occupants that may become trapped between the closing window and the door frame. The automatic reverse safety feature can be overridden by pulling and holding the window switch.

The logic circuit within the window motor monitors the up, down and express signal circuits which are normally equal to B+ voltage. When a switch is used on the driver window switch, the contacts close causing a voltage drop within the appropriate signal circuit. The driver window motor will detect the voltage drop and will command the window to move in the direction requested.

Passenger, Left Rear and Right Rear Express Down Window Motors

For the passenger, right rear and left rear doors, when their window switch is pressed in the down position, battery positive voltage is applied to their respective window motor control circuit and ground to the other window motor control circuit causing that window to open. When the individual window switch is pulled in the up position, voltage and ground is applied to the window motor in the opposite direction causing that window to close. The return path to ground is supplied through the inactive control circuit being normally grounded through the window switch.

Each passenger and rear window switch communicates to the BCM by a serial data circuit. When the driver wishes to control the passenger, left rear or right rear window, the driver will use the appropriate switch on the driver window switch. When this switch is used, a serial data message is sent to the BCM requesting a window motor command, the BCM will then send a serial data message to the appropriate door window switch which will then command that window to move in the direction requested.

Lockout Switch Feature

The driver window switch contains a window lockout switch, when the driver presses the window lockout switch, a serial data message is sent to the BCM which will send a disable command to the rear window switches, the rear window switches will then ignore all functions when a passenger uses the rear window switch. The rear window motor commands will still function normally when the driver uses the appropriate switches on the driver window switch.

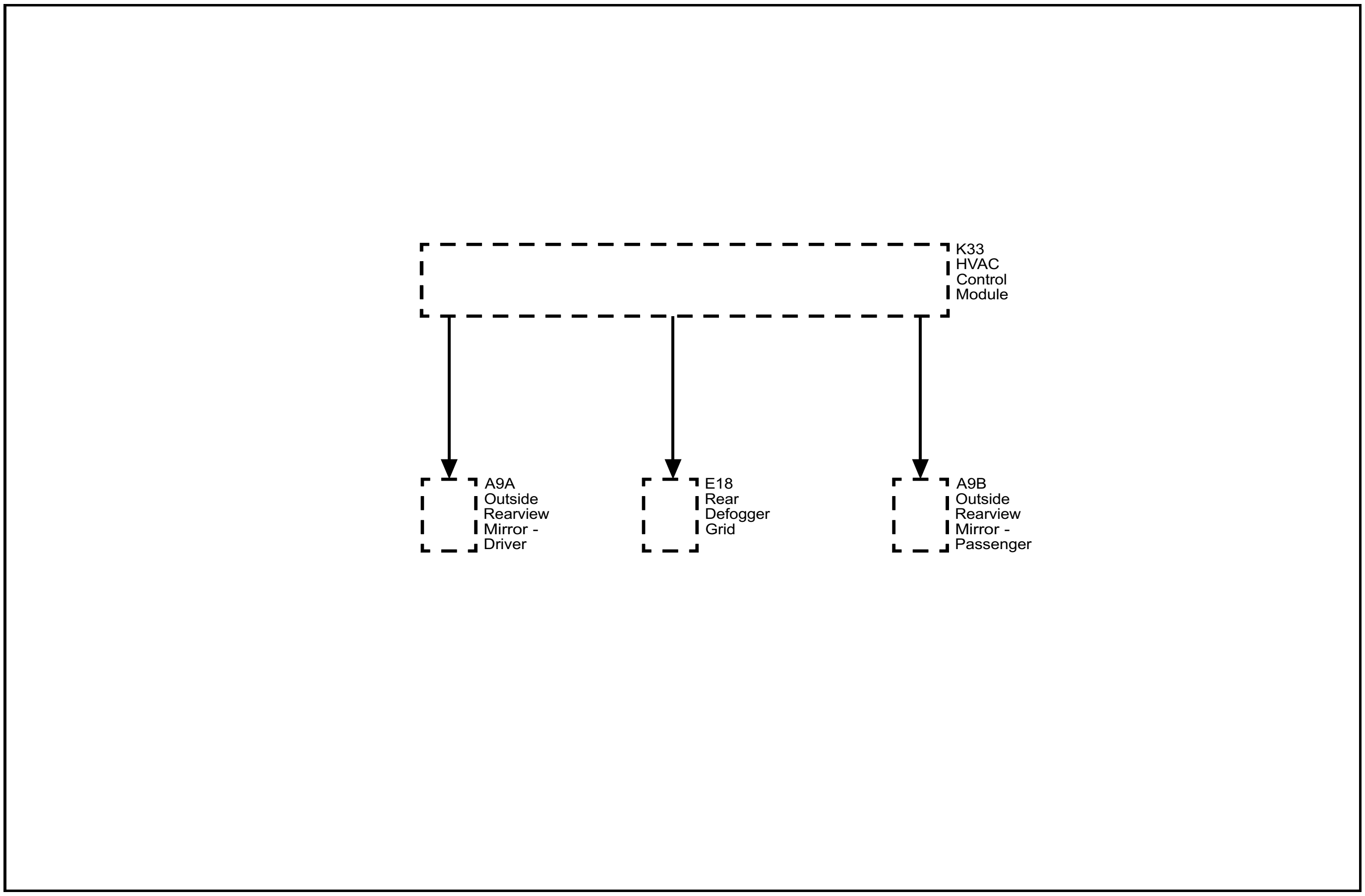
Rear Window Defogger Description and Operation

Rear Window Defogger System Components

The rear window defogger system consists of the following components:

- HVAC control module
- Rear defogger relay
- Rear defogger grid
- 40A fuse

Rear Window Defogger Block Diagram



Rear Window Defogger Operation

The rear defog control system utilizes a single zone backlight design, driven with a single relay configuration. Additionally, up to two outside rear view mirrors can be heated if equipped. A switch for the customer to control the system is provided within the HVAC control module, also included in the HVAC control module is an indicator to inform the customer with the current state of the system. The system is only operational when engine is running or during remote start or the vehicle is ON/RUN (Hybrid/EV).

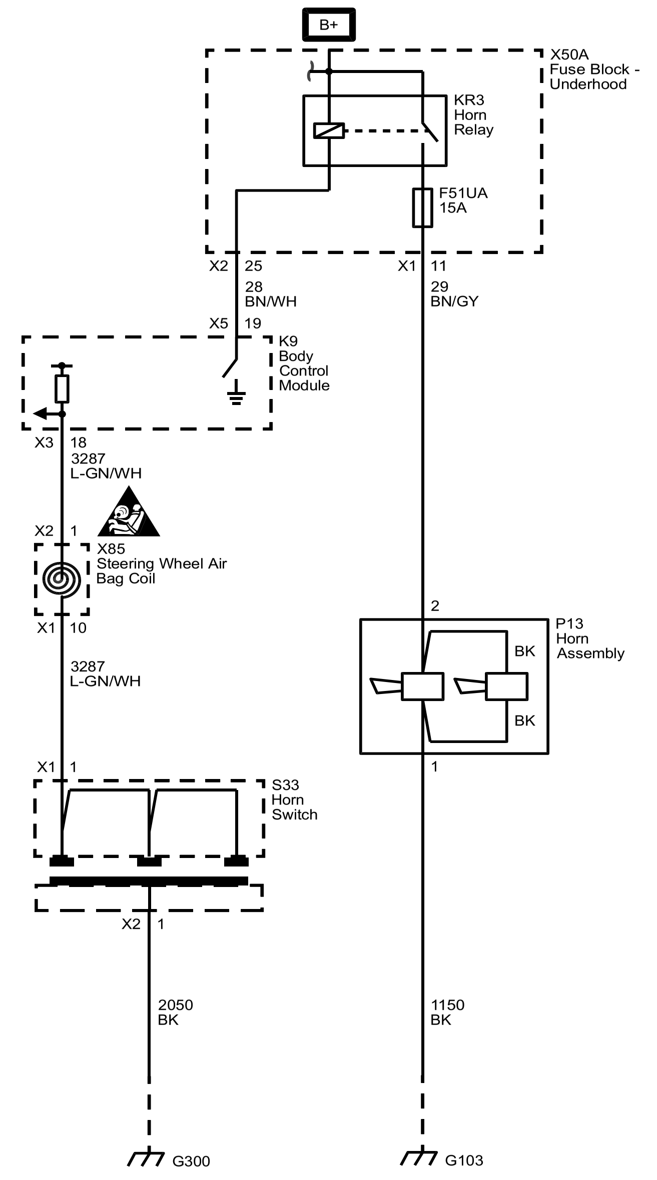
Pressing the heated rear window switch on the HVAC control module causes the HVAC control module to provide voltage to the coil side of the rear defogger relay, this will energize the relay causing the relay switch contacts to close allowing B+ voltage to flow through the rear defogger grid control circuit to the rear defogger grid.

When the rear heated rear window switch is pressed and the engine is running or the vehicle is ON/RUN (Hybrid/EV), the rear window defogger grid will activate and will turn off automatically depending upon the vehicle speed (refer to owner’s manual for rear window defogger operation cycles)

Horns and Pedestrian Alerts

Schematic and Routing Diagrams

Horn Schematics (Horns)


B+
X50A
Fuse Block -
Underhood
KR3
Horn
Relay
F51UA
15A
X2 25
28
BN/WH
X1 11
29
BN/GY
X5 19
K9
Body
Control
Module
X3 18
3287
L-GN/WH
X2 1
X85
Steering Wheel Air
Bag Coil
X1 10
3287
L-GN/WH
2
P13
Horn
Assembly
BK
BK
1
X1 1
S33
Horn
Switch
X2 1
2050
BK
1150
BK
G300
G103

4944936

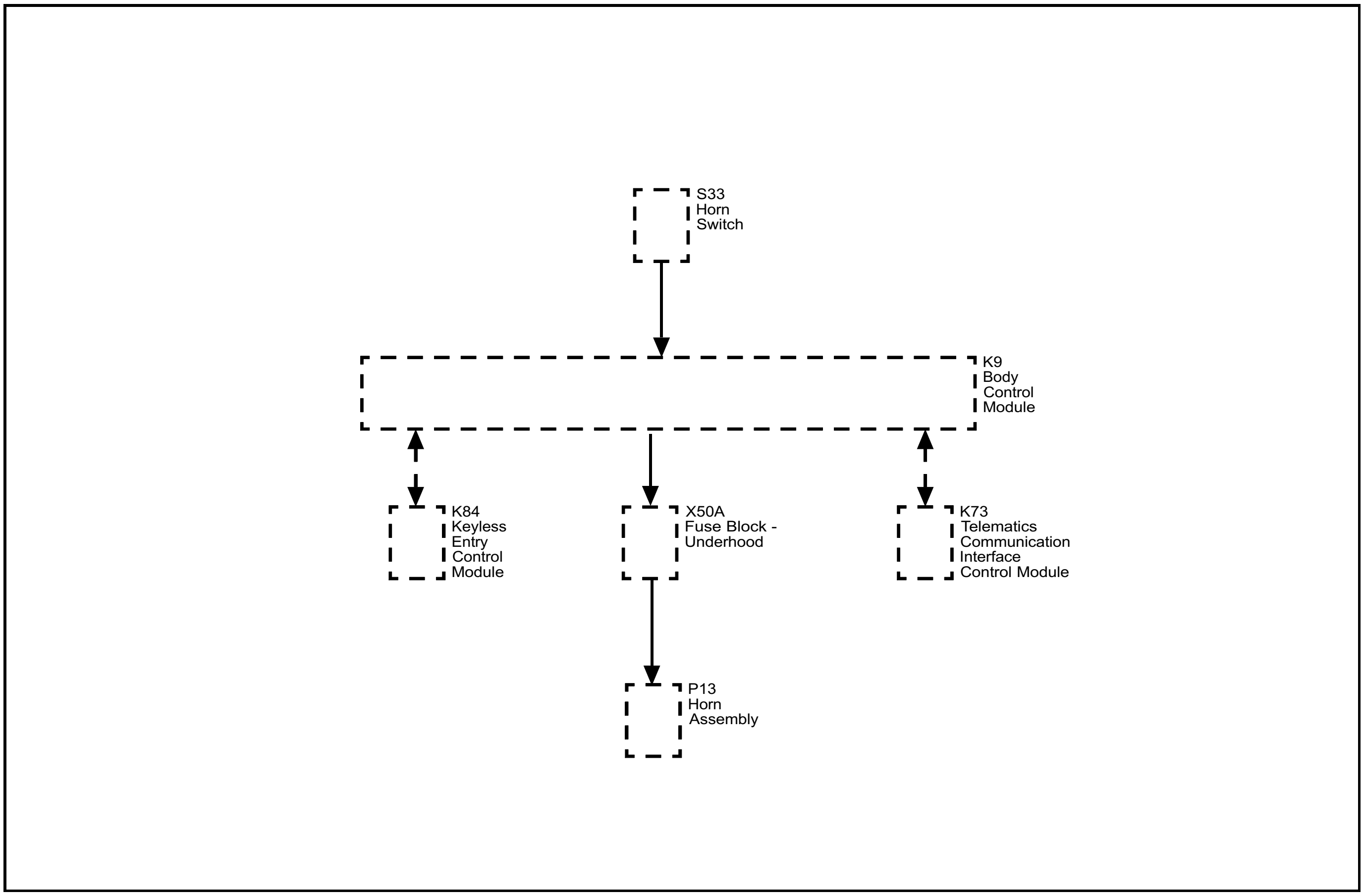
Description and Operation

Horns System Description and Operation

System Description

The horn system consists of the following components:

- HORN fuse
- Horn relay
- Horn switch
- Horn assembly
- Body control module (BCM)



3270443

System Operation

The vehicle horn system is activated under the following conditions:

- When the horn switch is depressed
- The BCM commands the horns ON under any of the following conditions:
  - When the content theft deterrent system detects a vehicle intrusion—For further information refer to Theft Systems Description and Operation.
  - When the panic button is depressed on the remote control door lock transmitter—For further information refer to *Keyless Entry System Description and Operation on page 6-11*.
  - When the keyless entry system is used to lock the vehicle, a horn chirp may sound to notify the driver that the vehicle has been locked. The notification feature may be enabled or disabled through personalization. For further information refer to *Keyless Entry System Description and Operation on page 6-11*.
  - When the OnStar® system is used to sound the horns if equipped—For further information, refer to OnStar Description and Operation.

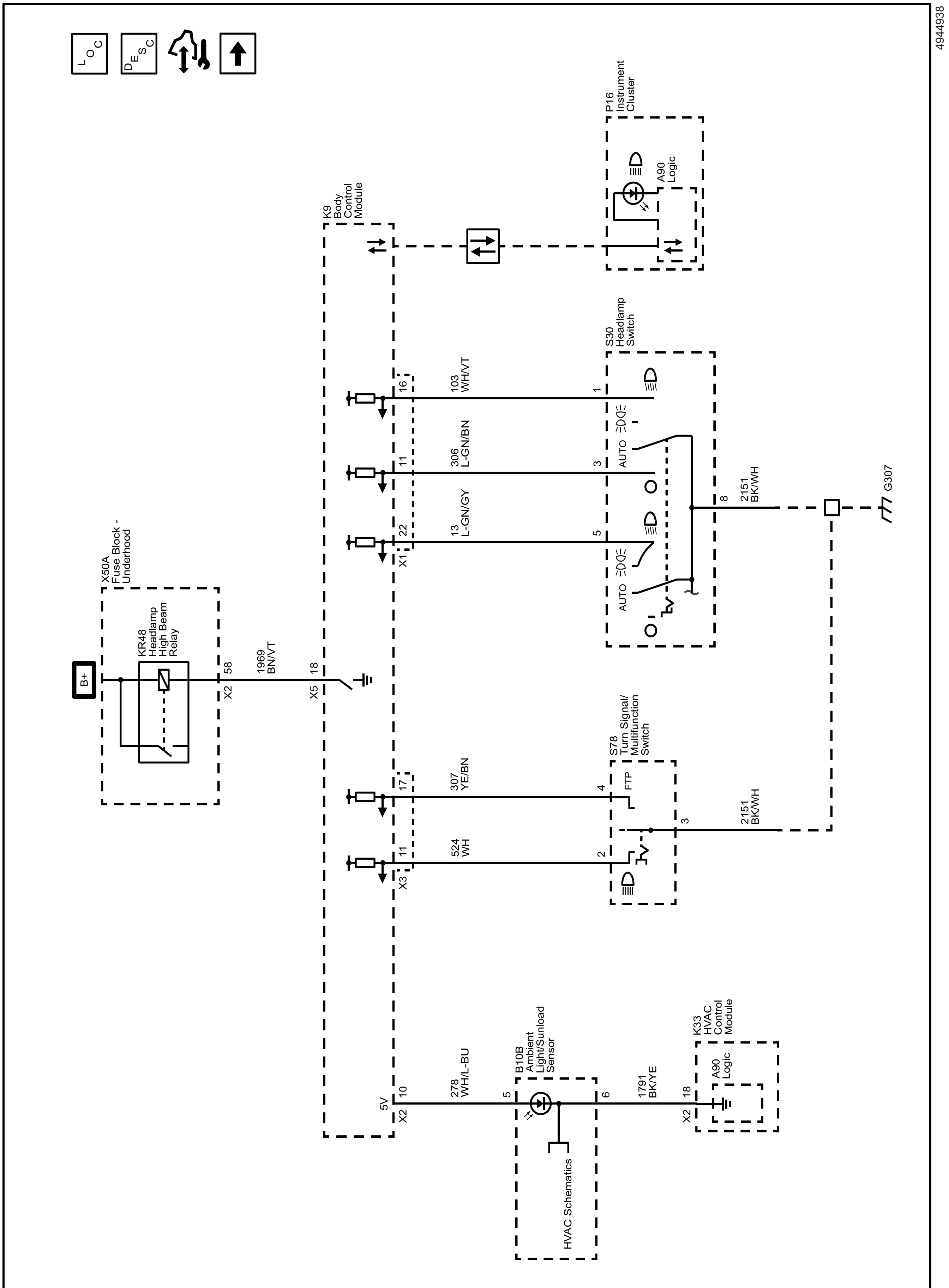
Circuit Operation

Battery positive voltage is applied at all times to the horn relay coil and the horn relay switch. Pressing either of the horn switches applies ground to the horn relay control circuit. The BCM may also apply ground to the horn relay control circuit as described above. When the horn relay control circuit is grounded, the horn relay is energized and battery positive voltage is applied to the horns through the horn control circuit. The horns sound as long as ground is applied to the horn relay control circuit.

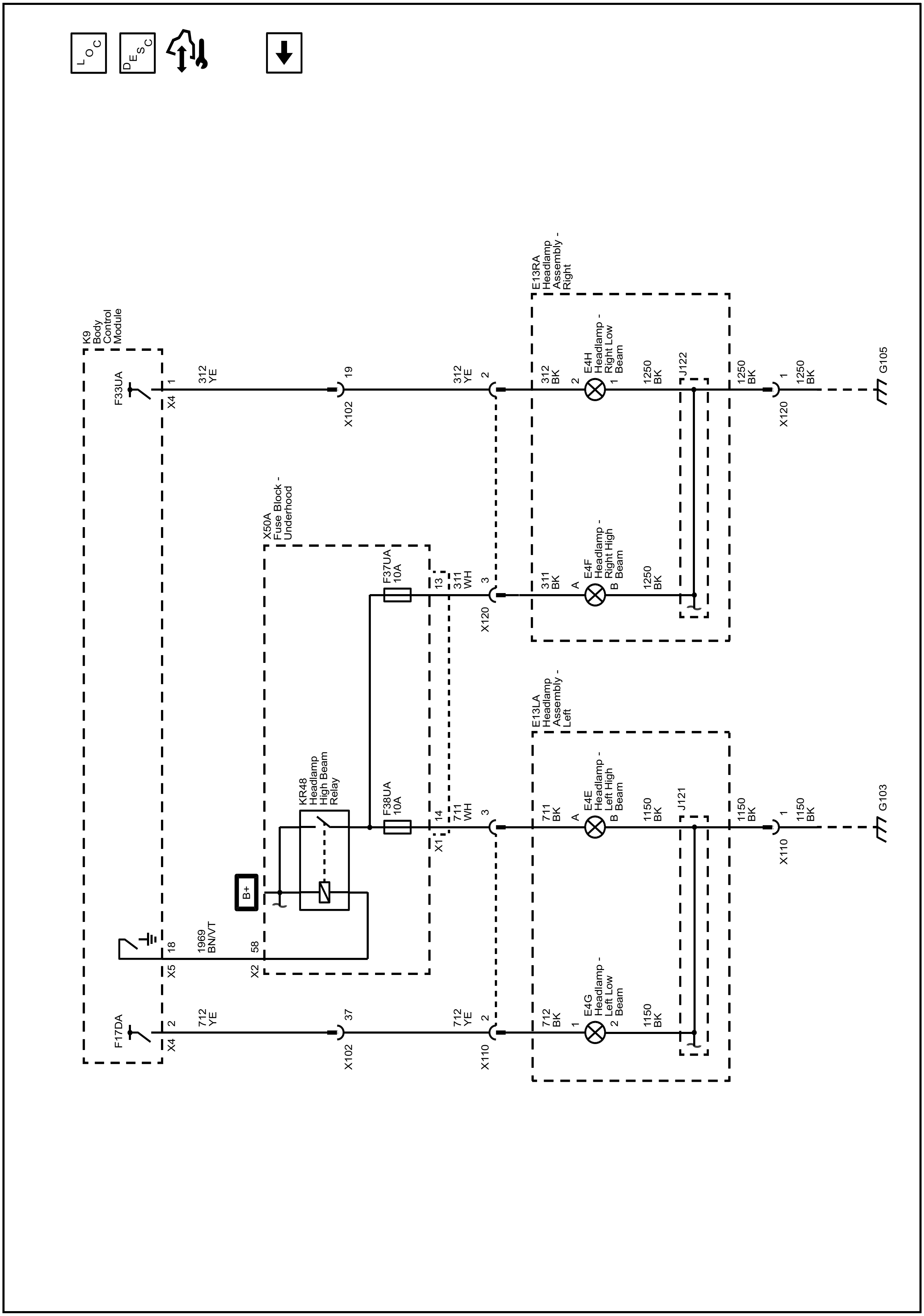
Lighting

Schematic and Routing Diagrams

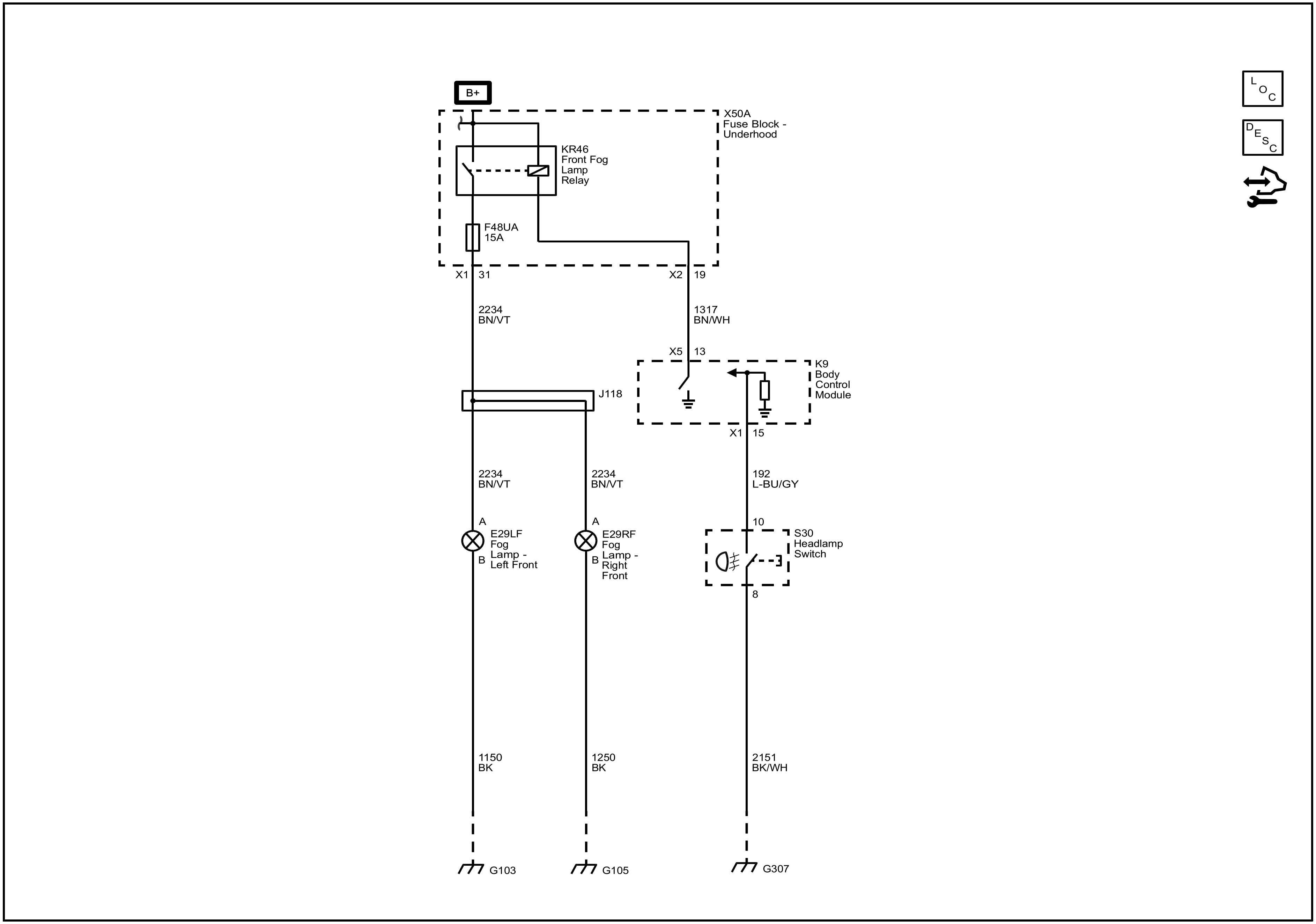
Headlights/Daytime Running Lights (DRL) Schematics (Controls)


4944938
LOC
DESC
B+
X50A Fuse Block - Underhood
KR48 Headlamp High Beam Relay
X2 58
1969 BN/VT
X5 18
K9 Body Control Module
X1
16
103 WH/VT
11
306 L-GN/BN
22
13 L-GN/GY
X3
17
307 YE/BN
11
524 WH
X2 10
5V
278 WH/L-BU
B10B Ambient Light/Sunload Sensor
5
6
HVAC Schematics
1791 BK/YE
X2 18
K33 HVAC Control Module
A90 Logic
S30 Headlamp Switch
1
3
5
AUTO
AUTO
8
2151 BK/WH
G307
S78 Turn Signal/ Multifunction Switch
4
FTP
2
3
2151 BK/WH
P16 Instrument Cluster
A90 Logic

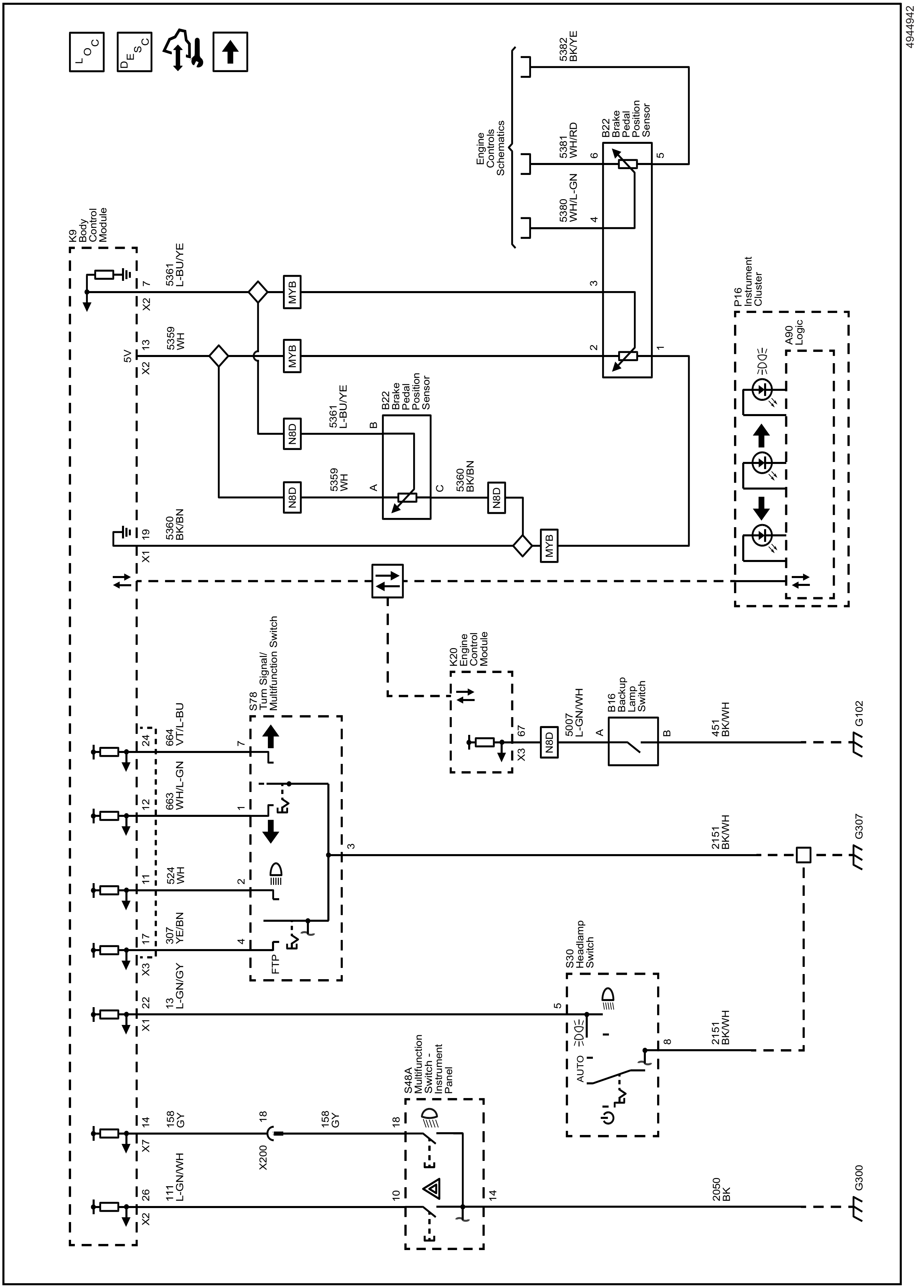
Headlights/Daytime Running Lights (DRL) Schematics (Headlamps)


4944939
LOC
DESC
K9 Body Control Module
F33UA
X4 1
312 YE
19
X102
312 YE
2
X120
E13RA Headlamp Assembly - Right
312 BK
2
E4H Headlamp - Right Low Beam
1
1250 BK
J122
1250 BK
1
X120
1250 BK
G105
X50A Fuse Block - Underhood
F37UA 10A
13
311 WH
3
X120
311 BK
A
E4F Headlamp - Right High Beam
B
1250 BK
E13LA Headlamp Assembly - Left
KR48 Headlamp High Beam Relay
F38UA 10A
14
X1
711 WH
3
711 BK
A
E4E Headlamp - Left High Beam
B
1150 BK
J121
1150 BK
1
X110
1150 BK
G103
B+
X5 18
1969 BN/VT
58
X2
F17DA
X4 2
712 YE
37
X102
712 YE
2
X110
712 BK
1
E4G Headlamp - Left Low Beam
2
1150 BK

Fog Lights Schematics (Fog Lamps (T3U))

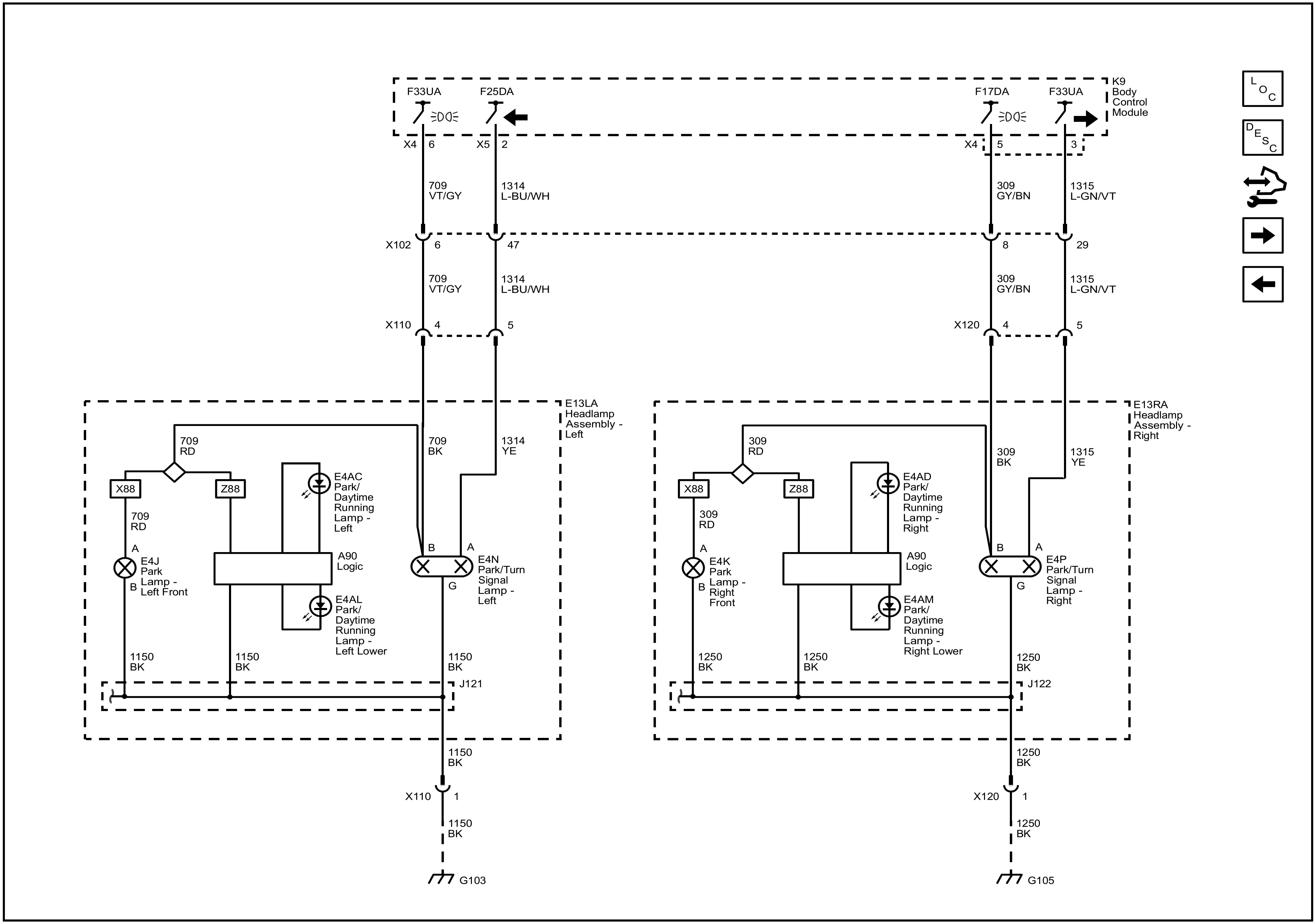

LOC
DESC
B+
X50A
Fuse Block - Underhood
KR46
Front Fog Lamp Relay
F48UA
15A
X1 31
X2 19
2234
BN/VT
1317
BN/WH
X5 13
K9
Body Control Module
J118
X1 15
2234
BN/VT
2234
BN/VT
192
L-BU/GY
A
E29LF
Fog Lamp - Left Front
B
A
E29RF
Fog Lamp - Right Front
B
10
S30
Headlamp Switch
8
1150
BK
1250
BK
2151
BK/WH
G103
G105
G307
4944940

Exterior Lights Schematics (Controls and Indicators)



LOC
DESC
4944942
K9 Body Control Module
X2 7
5361 L-BU/YE
5V
X2 13
5359 WH
X1 19
5360 BK/BN
MYB
N8D
5361 L-BU/YE
5359 WH
5360 BK/BN
B22 Brake Pedal Position Sensor
A
B
C
Engine Controls Schematics
5382 BK/YE
5381 WH/RD
5380 WH/L-GN
B22 Brake Pedal Position Sensor
1
2
3
4
5
6
P16 Instrument Cluster
A90 Logic
S78 Turn Signal/ Multifunction Switch
X3 24
664 VT/L-BU
X3 12
663 WH/L-GN
X3 11
524 WH
X3 17
307 YE/BN
7
1
2
4
3
FTP
K20 Engine Control Module
X3 67
5007 L-GN/WH
B16 Backup Lamp Switch
A
B
451 BK/WH
G102
2151 BK/WH
G307
X1 22
13 L-GN/GY
S30 Headlamp Switch
5
8
AUTO
2151 BK/WH
X7 14
158 GY
18
X200
158 GY
S48A Multifunction Switch - Instrument Panel
18
10
14
X2 26
111 L-GN/WH
2050 BK
G300

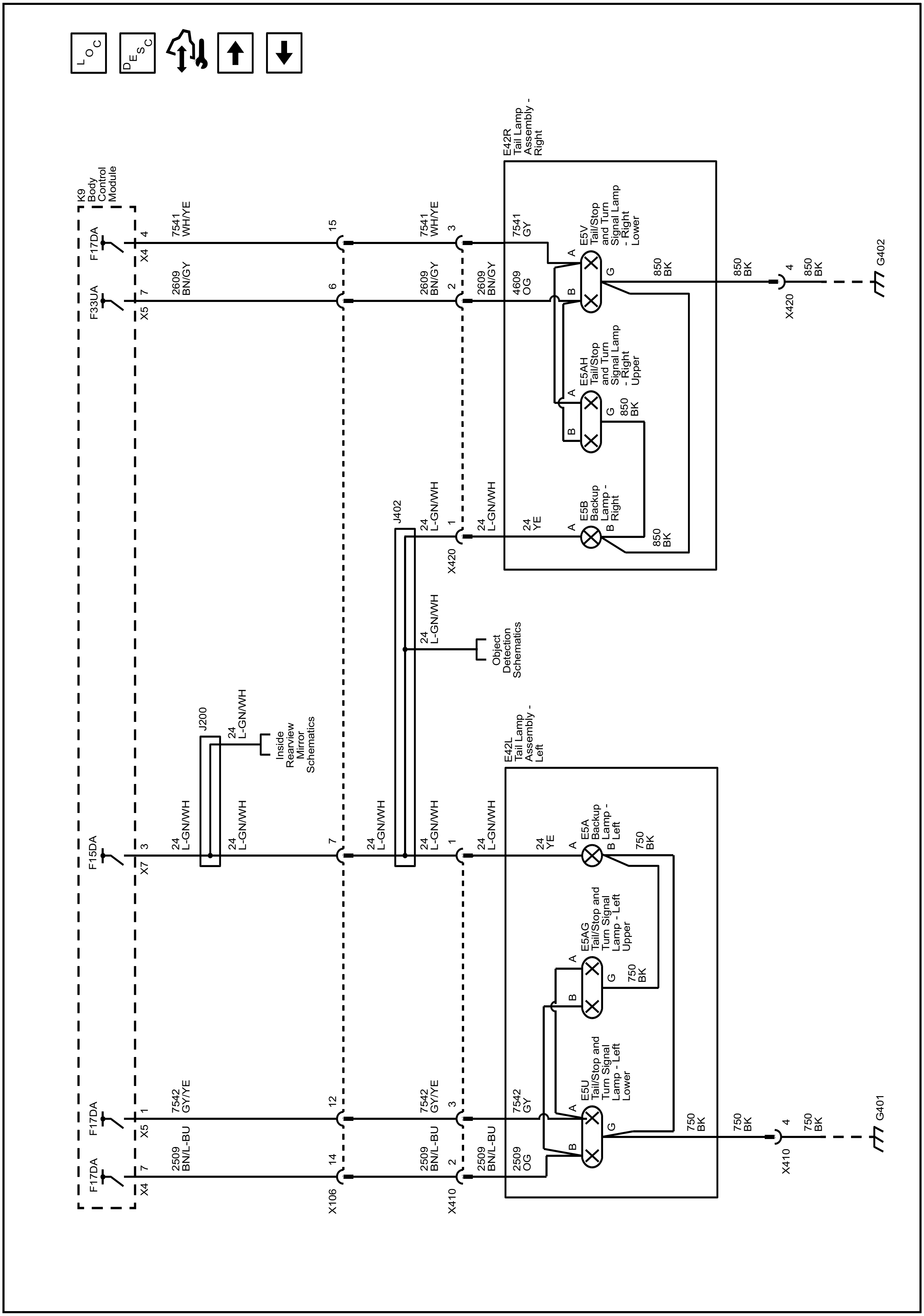
Exterior Lights Schematics (Park, Side Marker and Front Turn Lamps)



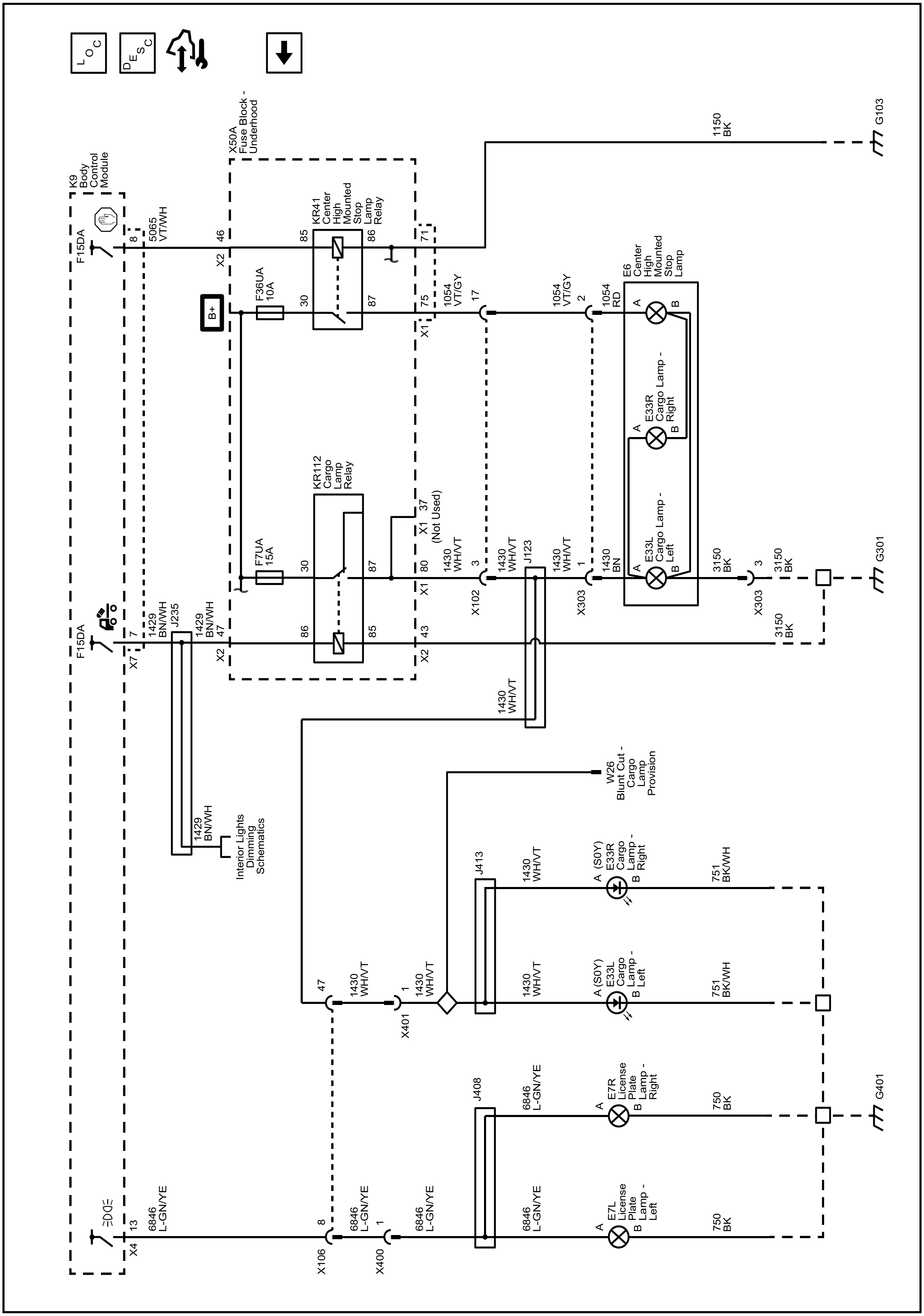
L O C
D E S C
F33UA
F25DA
F17DA
F33UA
K9 Body Control Module
X4 6
X5 2
X4 5
3
709 VT/GY
1314 L-BU/WH
309 GY/BN
1315 L-GN/VT
X102 6
47
8
29
X110 4
5
X120 4
5
E13LA Headlamp Assembly - Left
E13RA Headlamp Assembly - Right
709 RD
709 BK
1314 YE
309 RD
309 BK
1315 YE
X88
Z88
E4AC Park/ Daytime Running Lamp - Left
E4AD Park/ Daytime Running Lamp - Right
A90 Logic
E4AL Park/ Daytime Running Lamp - Left Lower
E4AM Park/ Daytime Running Lamp - Right Lower
E4J Park Lamp - Left Front
E4K Park Lamp - Right Front
E4N Park/Turn Signal Lamp - Left
E4P Park/Turn Signal Lamp - Right
A
B
G
1150 BK
1250 BK
J121
J122
X110 1
X120 1
G103
G105

4944943

Exterior Lights Schematics (Tail Lamps)

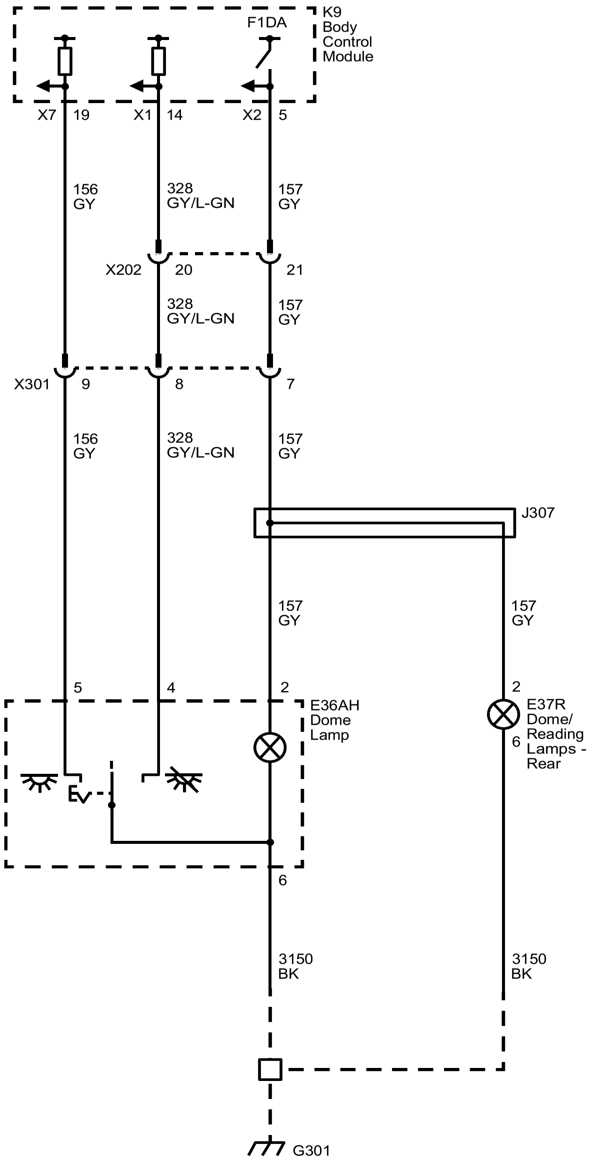

4944944
LOC
DESC
K9 Body Control Module
F17DA
X4 4
7541 WH/YE
F33UA
X5 7
2609 BN/GY
F15DA
X7 3
24 L-GN/WH
F17DA
X5 1
7542 GY/YE
F17DA
X4 7
2509 BN/L-BU
J200
Inside Rearview Mirror Schematics
X106
15
6
7
12
14
J402
Object Detection Schematics
X420
3
2
1
X410
3
2
1
7541 WH/YE
2609 BN/GY
7542 GY/YE
2509 BN/L-BU
E42R Tail Lamp Assembly - Right
7541 GY
4609 OG
A
B
G
E5V Tail/Stop and Turn Signal Lamp - Right Lower
E5AH Tail/Stop and Turn Signal Lamp - Right Upper
850 BK
24 YE
E5B Backup Lamp - Right
X420 4
G402
E42L Tail Lamp Assembly - Left
E5A Backup Lamp - Left
750 BK
E5AG Tail/Stop and Turn Signal Lamp - Left Upper
E5U Tail/Stop and Turn Signal Lamp - Left Lower
7542 GY
2509 OG
X410 4
G401

Exterior Lights Schematics (CHMSL, Cargo, License Plate Lamps and Accessory Bed Lighting (S0Y))


K9 Body Control Module
F15DA
8
5065 VT/WH
X2 46
F15DA
X7 7
1429 BN/WH
J235
1429 BN/WH 47
X2
X4 13
6846 L-GN/YE
X50A Fuse Block - Underhood
KR41 Center High Mounted Stop Lamp Relay
85
86
71
B+
F36UA 10A
30
87
X1 75
1054 VT/GY 17
KR112 Cargo Lamp Relay
F7UA 15A
30
87
86
85
X1 37 (Not Used)
X1 80
1430 WH/VT 3
X102
X2 43
1430 WH/VT
J123
1430 WH/VT 1
X303
1054 VT/GY 2
1054 RD
E6 Center High Mounted Stop Lamp
A
B
E33R Cargo Lamp - Right
E33L Cargo Lamp - Left
1430 BN
3150 BK
X303
3
3150 BK
G301
3150 BK
1150 BK
G103
1430 WH/VT
1429 BN/WH
Interior Lights Dimming Schematics
W26 Blunt Cut - Cargo Lamp Provision
47
1430 WH/VT
X401 1
1430 WH/VT
J413
1430 WH/VT
A (S0Y) E33R Cargo Lamp - Right B
751 BK/WH
1430 WH/VT
A (S0Y) E33L Cargo Lamp - Left B
751 BK/WH
J408
6846 L-GN/YE
A E7R License Plate Lamp - Right B
750 BK
G401
6846 L-GN/YE
A E7L License Plate Lamp - Left B
750 BK
X106 8
6846 L-GN/YE
X400 1
6846 L-GN/YE
L O C
D E S C

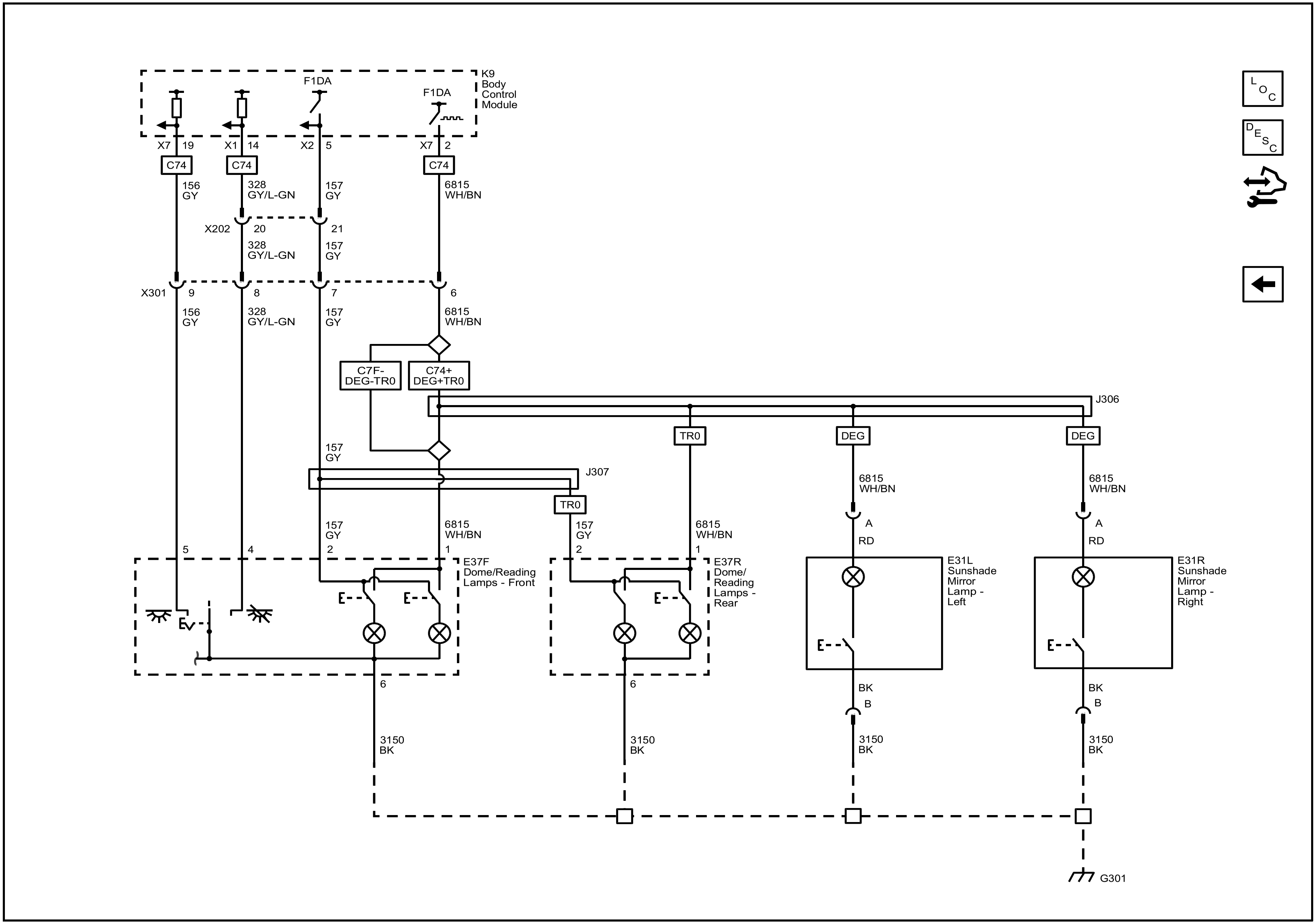
4944945

Interior Lights Schematics (Dome Lamps (Except C74))


K9
Body
Control
Module
F1DA
X7 19
X1 14
X2 5
156
GY
328
GY/L-GN
157
GY
X202 20
21
X301 9
8
7
J307
5
4
2
E36AH
Dome
Lamp
E37R
Dome/
Reading
Lamps -
Rear
6
3150
BK
G301

4944946

Interior Lights Schematics (Dome/Reading, and Sunshades Lamps (C74/TR0/D6I))


K9
Body
Control
Module
F1DA
F1DA
X7 19
X1 14
X2 5
X7 2
C74
C74
C74
156
GY
328
GY/L-GN
157
GY
6815
WH/BN
X202
20
21
328
GY/L-GN
157
GY
X301
9
8
7
6
156
GY
328
GY/L-GN
157
GY
6815
WH/BN
C7F-
DEG-TR0
C74+
DEG+TR0
J306
J307
TR0
DEG
DEG
TR0
157
GY
157
GY
6815
WH/BN
157
GY
6815
WH/BN
6815
WH/BN
6815
WH/BN
A
RD
A
RD
5
4
2
1
2
1
E37F
Dome/Reading
Lamps - Front
E37R
Dome/
Reading
Lamps -
Rear
E31L
Sunshade
Mirror
Lamp -
Left
E31R
Sunshade
Mirror
Lamp -
Right
6
6
BK
B
BK
B
3150
BK
3150
BK
3150
BK
3150
BK
G301
4944948

Description and Operation

Exterior Lighting Systems Description and Operation

The exterior lighting system consist of the following lamps:

- Backup lamps
- Daytime running lamps
- Front fog lamps
- Hazard warning lamps
- Headlamps
- Park, tail, license, and marker lamps
- Stop lamps
- Turn signal lamps
- Trailer lighting

Low Beam Headlamps

The headlamps may be turned ON in 3 different ways:

- When the headlamp switch is placed in the ON position, for normal operation
- When the headlamp switch is placed in the AUTO position, for automatic lamp control
- When the headlamp switch is placed in the AUTO position, with the windshield wipers ON in daylight conditions, after a 6 second delay

The BCM will also command the low beam headlamps ON during daylight conditions when the following conditions are met:

- Headlamp switch in the AUTO position
- Windshield wipers ON
- Vehicle in any gear but PARK

When the BCM commands the low beam headlamps ON, the vehicle operator will notice the interior backlighting for the instrument cluster and the various switches with backlighting control will dim to the level of brightness selected by the instrument panel dimmer switch.

The body control module (BCM) monitors three signal circuits from the headlamp switch. When the headlamp switch is in the AUTO position, all three signal circuits are open. When placed in the AUTO position, the BCM monitors inputs from the ambient light sensor to determine if headlamps are required or if daytime running lamps will be activated based on outside lighting conditions. When the headlamp switch is placed in the OFF position, the headlamp switch headlamps OFF signal circuit is grounded, indicating to the BCM that the exterior lamps should be turned OFF. With the headlamp switch in the PARK position, the headlamp switch park lamps ON signal circuit is grounded, indicating that the park lamps have been requested. When the headlamp switch is placed in the HEADLAMP position, both the headlamp switch park lamps ON signal circuit and the headlamp switch headlamps ON signal circuit are grounded. The BCM responds to the inputs by illuminating the park lamps and headlamps. When the low beam headlamps are requested, the BCM applies B+ to both low beam headlamp control circuits illuminating the low beam headlamps.

High Beam Headlamps

When the low beam headlamps are ON and the turn signal/multifunction switch is placed in the high beam position, ground is applied to the BCM through the high beam signal circuit. The BCM responds to the high beam request by applying ground to the high beam relay control circuit which energizes the high beam relay. With the high beam relay energized, the switch contacts close allowing battery voltage to flow through the left and right high beam fuses to the high beam control circuits illuminating the left and right high beam headlamps.

Daytime Running Lamps

The daytime running lamps will illuminate continuously when the following conditions are met:

- The ignition is in the RUN or CRANK position
- The shift lever is out of the PARK position for vehicles equipped with automatic transmissions or the parking brake is released for vehicles with manual transmissions
- The low and high beam headlamps are OFF

The ambient light sensor is used to monitor outside lighting conditions. The ambient light sensor provides a voltage signal that will vary between 0.2 and 4.9 volts depending on outside lighting conditions. The body control module (BCM) provides a 5 V reference signal to the ambient light sensor and the HVAC control module provides a low reference ground. The BCM monitors the ambient light sensor signal circuit to determine if outside lighting conditions are correct for either daytime running lights or automatic lamp control when the headlamp switch is in the AUTO position. In daylight conditions the BCM will command the low beam headlamps ON. Any function or condition that turns on the headlamps will cancel daytime running lamps operation.

Flash to Pass

When the turn signal/multifunction switch is momentarily placed in the flash to pass position, ground is applied to the turn signal/multifunction switch. The turn signal/multifunction switch applies ground to the body control module (BCM) through the flash to pass switch signal circuit. The BCM responds to the flash to pass request by applying ground to the high beam relay control circuit. This energizes the high beam relay, closing the switch side contacts of the high beam relay, applying battery voltage to the left and right high beam fuses. Battery voltage is applied from the high beam fuses through the high beam control circuit to the high beam headlamp assemblies. This causes the high beam headlamps to illuminate at full brightness momentarily.

Backup Lamps

Automatic Transmission

With the engine ON and the transmission in the REVERSE position, the transmission control module (TCM) sends a serial data message to the body control module (BCM). The message indicates that the gear selector is in the REVERSE position. The BCM applies battery voltage to the backup lamps control circuit illuminating the backup lamps. Once the driver moves the gear selector out of the REVERSE position, a message is sent by the TCM via serial data requesting the BCM to remove battery voltage from the backup lamps control circuit. The engine must be ON for the backup lamps to operate.

Manual Transmission

The engine control module (ECM) provides a signal circuit to the backup lamp switch which is permanently grounded. With the engine running and the transmission in the reverse position, the backup lamp switch signal circuit is pulled low and the ECM responds by sending a serial data message to the body control module (BCM). The message indicates that the gear selector is in the reverse position. The BCM applies battery voltage to the backup lamps control circuit illuminating the backup lamps. Once the driver moves the gear selector out of the reverse position, a message is sent by the ECM via serial data requesting the BCM to remove battery voltage from the backup lamps control circuit. The engine must be running for the backup lamps to operate. The engine must be running for the backup lamps to operate.

Front Fog Lamps

The front fog lamp switch is an input to the body control module (BCM) and is contained in the headlamp switch assembly. The BCM supplies voltage to the front fog lamp switch via the front fog lamp and instrument panel dimmer switch B+ circuit. When the front fog lamp switch is pressed, voltage from the B+ circuit is pulled down through the front fog lamp switch resistor. The front fog lamp resistor is part of the resistor ladder that also provides the dimming signals for the instrument panel dimmer switches. The BCM receives the voltage signal through the front fog lamp and instrument panel dimmer switch signal circuit.

The front fog lamp relay is supplied with battery voltage at all times. The front fog lamp switch signal circuit is grounded momentarily by pressing the front fog lamp switch. The body control module (BCM) energizes the front fog lamp relay by applying ground to the front fog lamp relay control circuit. When the front fog lamp relay is energized, the relay switch contacts close and battery voltage is applied through the front fog lamp fuse to the front fog lamp control circuit which illuminates the front fog lamps.

Hazard Lamps

The hazard flashers may be activated in any power mode. The hazard switch signal circuit is momentarily grounded when the hazard switch is pressed. The body control module (BCM) responds to the hazard switch signal input by supplying battery voltage to all four turn signal lamps in an ON and OFF duty cycle. When the hazard switch is activated, the BCM sends a serial data message to the instrument panel cluster requesting both turn signal indicators to be cycled ON and OFF.

The instrument panel dimmer switch controls the brightness of the interior backlighting components. When the instrument panel dimmer switch is placed in a desired brightness position, the body control module (BCM) receives a signal from the instrument panel dimmer switch and responds by applying a pulse width modulated voltage to the hazard switch light emitting diode (LED) backlighting control circuit illuminating the LED to the desired level of brightness.

Park, Tail, and License Lamps

When the headlamp switch is placed in the HEAD or PARK position, ground is applied to the park lamp switch ON signal circuit to the body control module (BCM). The BCM responds by applying voltage to the park lamps, tail lamps, and license lamps control circuits illuminating the park, tail, and license lamps.

Stop Lamps

The brake pedal position sensor is used to sense the action of the driver application of the brake pedal. The brake pedal position sensor provides an analog voltage signal that will increase as the brake pedal is applied. The body control module (BCM) provides a low reference signal and a 5 V reference voltage to the brake pedal position sensor. When the variable signal reaches a voltage threshold indicating the brakes have been applied, the BCM will apply battery voltage to the left and right stop lamp control circuits as well as the center high mounted stop lamp control circuit illuminating the left and right stop lamps and the center high mounted stop lamp.

Turn Signal Lamps

Ground is applied at all times to the turn signal/ multifunction switch. The turn signal lamps may only be activated with the ignition switch in the ON or START positions. When the turn signal/multifunction switch is placed in either the TURN RIGHT or TURN LEFT position, ground is applied to the body control module (BCM) through either the right turn or left turn signal switch signal circuit. The BCM responds to the turn signal switch input by applying a pulsating voltage to the front and rear turn signal lamps through there respective control circuits. When a turn signal request is received by the BCM, a serial data message is sent to the instrument cluster requesting the respective turn signal indicator be pulsed ON and OFF.

Trailer Lighting

Backup Lamps

For backup lamp operation, the trailer backup lamps relay is supplied with battery voltage at all times. With the engine running and the transmission in the reverse position, the transmission control module (TCM) sends a serial data message to the body control module (BCM). The message indicates that the gear selector is in the reverse position. The BCM responds to the backup lamp request by energizing the trailer backup lamps relay by applying battery voltage to the trailer backup lamps relay control circuit. When the trailer backup lamps relay is energized, the relay switch contacts close and battery voltage is applied through the backup lamp fuse to the trailer backup lamps control circuit which illuminates the trailer backup lamps. Once the driver moves the gear selector out of the reverse position, a message is sent by the TCM via serial data requesting the BCM to remove battery voltage from the trailer backup lamps relay control circuit.

Park Lamps

For trailer park lamp operation, the trailer park lamps relay is supplied with battery voltage at all times. When the headlamp switch is placed in the HEAD or PARK position, ground is applied to the park lamp switch ON signal circuit to the body control module (BCM). The BCM responds to the park lamp request by energizing the trailer park lamps relay by applying ground to the trailer park lamps relay control circuit. When the trailer park lamps relay is energized, the relay switch contacts close and battery voltage is applied through the trailer parks lamp fuse to the trailer park lamp control circuit which illuminates the trailer park lamps.

Stop Lamps

For trailer stop lamp operation, the left and right trailer stop/turn signal lamp relay's are supplied with battery voltage at all times. The brake pedal position sensor is used to sense the action of the driver application of the brake pedal. The brake pedal position sensor provides an analog voltage signal that will increase as the brake pedal is applied. The body control module (BCM) provides a low reference signal and a 5 V reference voltage to the brake pedal position sensor. When the variable signal reaches a voltage threshold indicating the brakes have been applied, the BCM energizes the left and right trailer stop/turn signal lamp relay's by applying ground to the left and right trailer stop/turn signal lamp relay control circuits. With the left and right trailer stop/turn signal lamp relay's energized, the relay switch contacts close and battery voltage is applied through the left and right trailer stop/turn signal fuse's to the trailer stop lamp control circuits which illuminates the trailer stop lamps.

Turn Signal Lamps

For trailer turn signal lamp operation, the left and right trailer stop/turn signal lamp relay's are supplied with battery voltage at all times. Ground is applied at all times to the turn signal/multifunction switch. The turn signal lamps may only be activated with the ignition switch in the ON or START positions. When the turn signal/multifunction switch is placed in either the TURN RIGHT or TURN LEFT position, ground is applied to the body control module (BCM) through either the right turn or left turn signal switch signal circuit. The BCM responds to the turn signal switch input by applying a pulsating ground to the left and right trailer stop/turn signal lamp relay control circuits energizing the relay's in an ON and OFF cycle. With the left and right trailer stop/turn signal lamp relay's energized, the relay switch contacts cycle ON and OFF applying battery voltage through the left and right trailer stop/turn signal fuse's to the trailer turn signal lamp control circuits which illuminates the trailer turn signal lamps in an ON and OFF cycle.

Battery Run Down Protection/ Inadvertent Power

To provide battery run down protection, the exterior lamps will be deactivated automatically under certain conditions. The BCM monitors the state of the headlamp switch. If the park or headlamp switch is ON when the ignition switch is placed in either the CRANK or RUN position and then placed in the OFF position, the BCM initiates a 10 minute timer. At the end of the 10 minutes, the BCM will turn off the control power output to the park lamp controls as well as the headlamp relay coils, deactivating the exterior lamps. This feature will be cancelled if any power mode other than OFF becomes active. The BCM will disable battery run down protection if any of the following conditions exist. The park or headlamp switch is placed in the ON to OFF position, and back to the ON position during battery run down protection. The BCM determined that the park or headlamp switch was not active when the ignition was turned OFF.

Interior Lighting Systems Description and Operation

Interior Lamps

The interior lighting system consist of two groups. This first group includes lamps that may not be dimmed.

- Dome lamps
- Reading lamps
- Sunshade mirror lamps

Dome Lamps

The dome lamp switch has 3 positions: DOOR, OFF, and ON. The ON position provides a ground for continuous operation and the dome lamps will remain illuminated until the switch is placed in either the DOOR or OFF position. When in the DOOR position, the dome lamps operation is controlled by the body control module (BCM). When any door is opened, the door ajar switch contacts close and the BCM receives a door-open input. The BCM illuminates the dome lamps when any door is opened or a door lock/unlock request is activated with the key fob. After all doors have been closed, the dome lamps will remain illuminated approximately 3 seconds after the last door closes. When the driver places the dome lamp switch in the OFF position, the dome lamps will be disabled. In the event that the dome lamps were to remain illuminated for more than 10 minutes with the ignition switch in the OFF position and no doors opened, the BCM will deactivate the dome lamps control circuit to prevent total battery discharge. The dome lamps will turn OFF using the theater dimming feature when controlled by the BCM.

Reading Lamps

The inadvertent power supply voltage circuit from the BCM provides battery positive voltage to each reading lamp. When a reading lamp switch is activated, the switch contacts close providing a path to ground and the reading lamp illuminates. If the operator inadvertently leaves a reading lamp ON, the BCM will turn all interior lamps OFF after 10 minutes has passed since any switch activation has been detected by the BCM.

Sunshade Mirror Lamps

The inadvertent power supply voltage circuit from the BCM provides battery voltage to each set of sunshade mirror lamps. When the sunshade mirror cover is opened, a switch closes providing ground and the sunshade lamps illuminate. If the operator inadvertently leaves a sunshade mirror cover open with the lamps

ON, the BCM will turn all interior lamps OFF after 10 minutes has passed since any switch activation has been detected by the BCM.

Keyless Entry Interior Illumination

When the operator uses the keyless entry transmitter in order to unlock the doors, the BCM receives a door-unlock signal. The BCM must receive inputs from various systems that indicate that the ignition switch is OFF, the courtesy lamp switch is OFF, and all doors are closed before the BCM will activate the interior lamps. After all doors have been closed, the courtesy lamps will turn OFF immediately if the ignition switch is turned to the ON position, the door locks are LOCKED, or approximately 20 seconds after the last door closes. The BCM will turn off the courtesy lamps through the theater dimming feature. The BCM keeps the courtesy lamps on for 40 seconds after an alarm event is completed.

Interior Lamps Dimming

The second group includes lamps which may be dimmed. This group may use a combination of light emitting diodes (LED), incandescent lamps, and pulse width modulation (PWM) illumination.

- Dome/reading lamps – front
- Dome/reading lamps – rear
- Door lock switch – driver
- Door lock switch – passenger
- Hazard switch
- Headlamp switch
- HVAC control head assembly
- Multifunction switch – instrument panel
- Outside rearview mirror switch
- Radio
- Steering wheel control switch – left
- Steering wheel control switch – right
- Sun roof switch
- Sun roof tilt switch
- Window switch – passenger

With the headlamp switch in the PARK or HEAD position, the park lamp switch signal circuit provides an input to the body control module (BCM). The BCM responds by applying voltage to the park lamps as well as the backlight dimming control circuits illuminating all components with interior backlighting. All interior backlighting turns ON at the dimming level indicated by the instrument panel dimmer switch. The instrument panel dimmer switch is a momentary type switch and utilizes a resistor ladder to increase and decrease the brightness of the interior backlighting components. The instrument panel dimmer switch provides a voltage signal to the BCM that will increase as the brightness of the lights are increased and decrease as the brightness of the lights are decreased. The BCM provides a low reference signal and a B+ circuit to the switch. When the instrument panel dimmer switch is held in the desired position, the dimmed voltage setting is applied from the instrument panel dimmer switch through the instrument panel dimmer switch signal circuit to the BCM. The BCM interprets the signal and applies a pulse width modulated (PWM) voltage through the backlighting control circuits illuminating the interior backlighting to the requested level of brightness.

The backlighting for the HVAC controls, instrument cluster, and radio controls are controlled by the BCM via serial data. When the instrument panel dimmer switch is operated to the desired backlighting setting, the BCM sends a serial data message to the HVAC control module, radio, and instrument cluster requesting the backlighting be adjusted to the desired level.

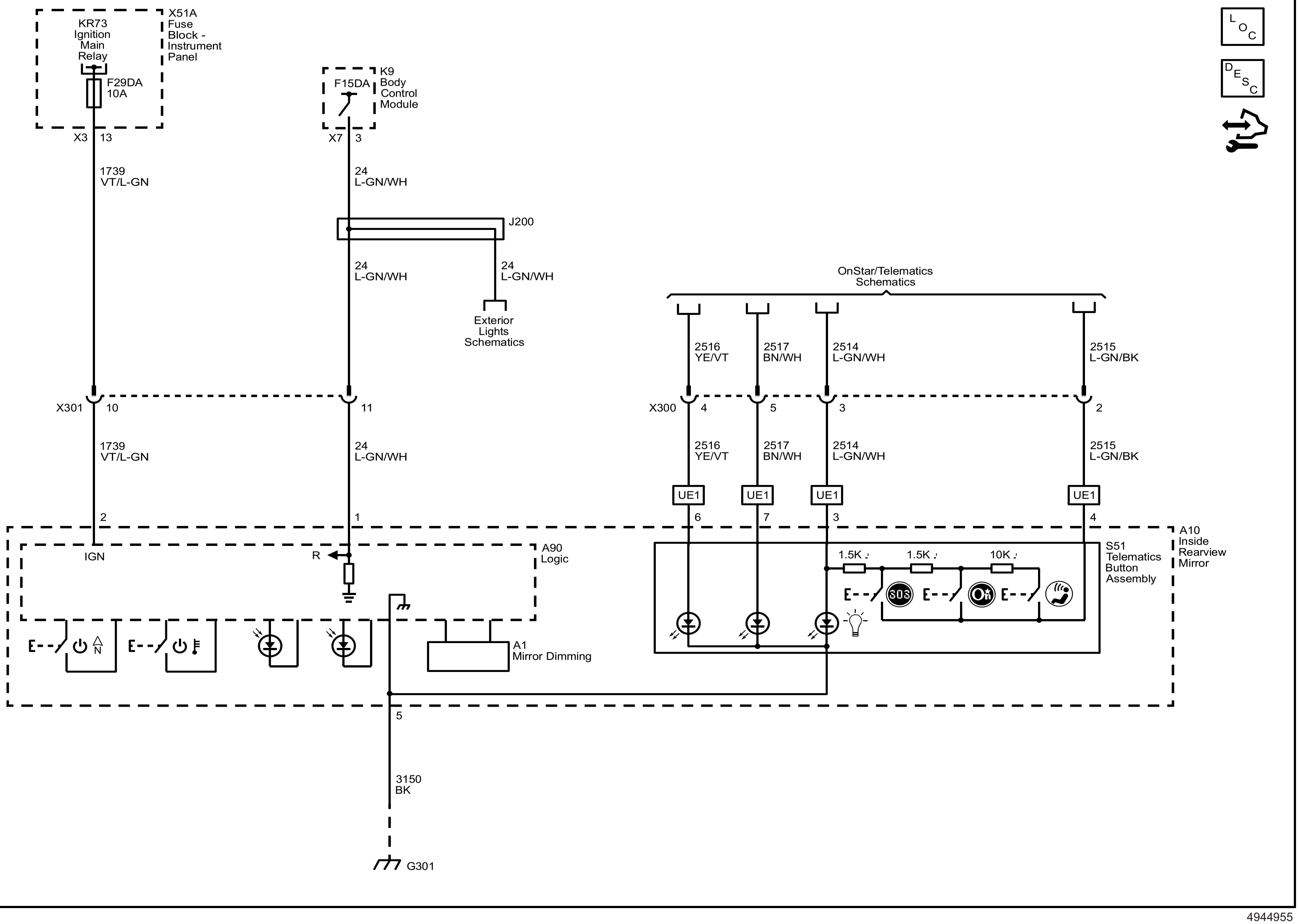
Battery Rundown Protection/ Inadvertent Power

The BCM inadvertent power supply voltage circuit provides battery voltage to all of the interior courtesy lamps. In the event that any of these lamps were to remain illuminated for a period of more than 10 minutes with the ignition switch in the OFF position, the BCM will deactivate the inadvertent power supply voltage circuit to prevent total battery discharge. If the ignition switch is turned to any position other than OFF, or if a lamp switch is activated during this 10 minute period, the timer resets for another 10 minutes.

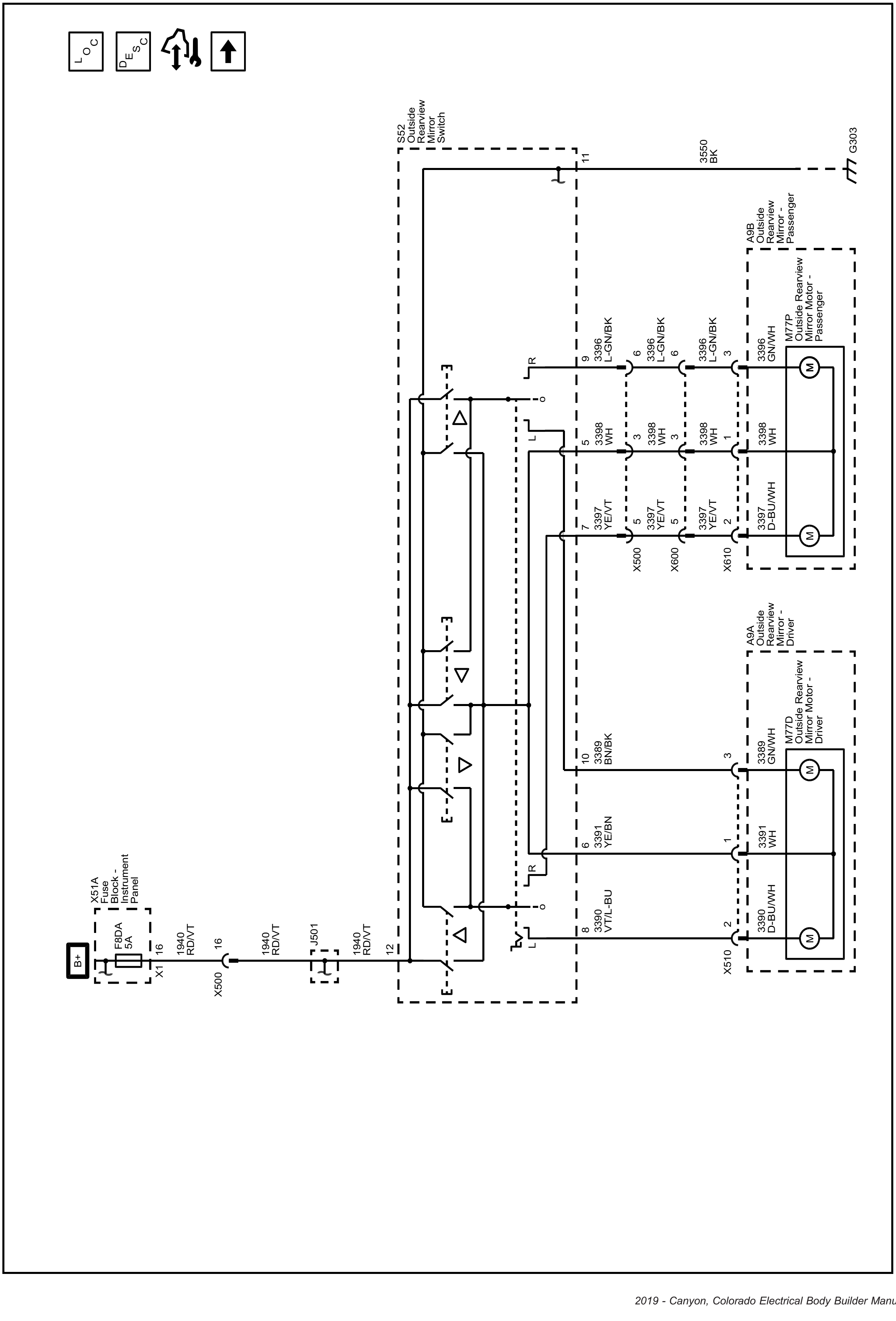
Mirrors

Schematic and Routing Diagrams

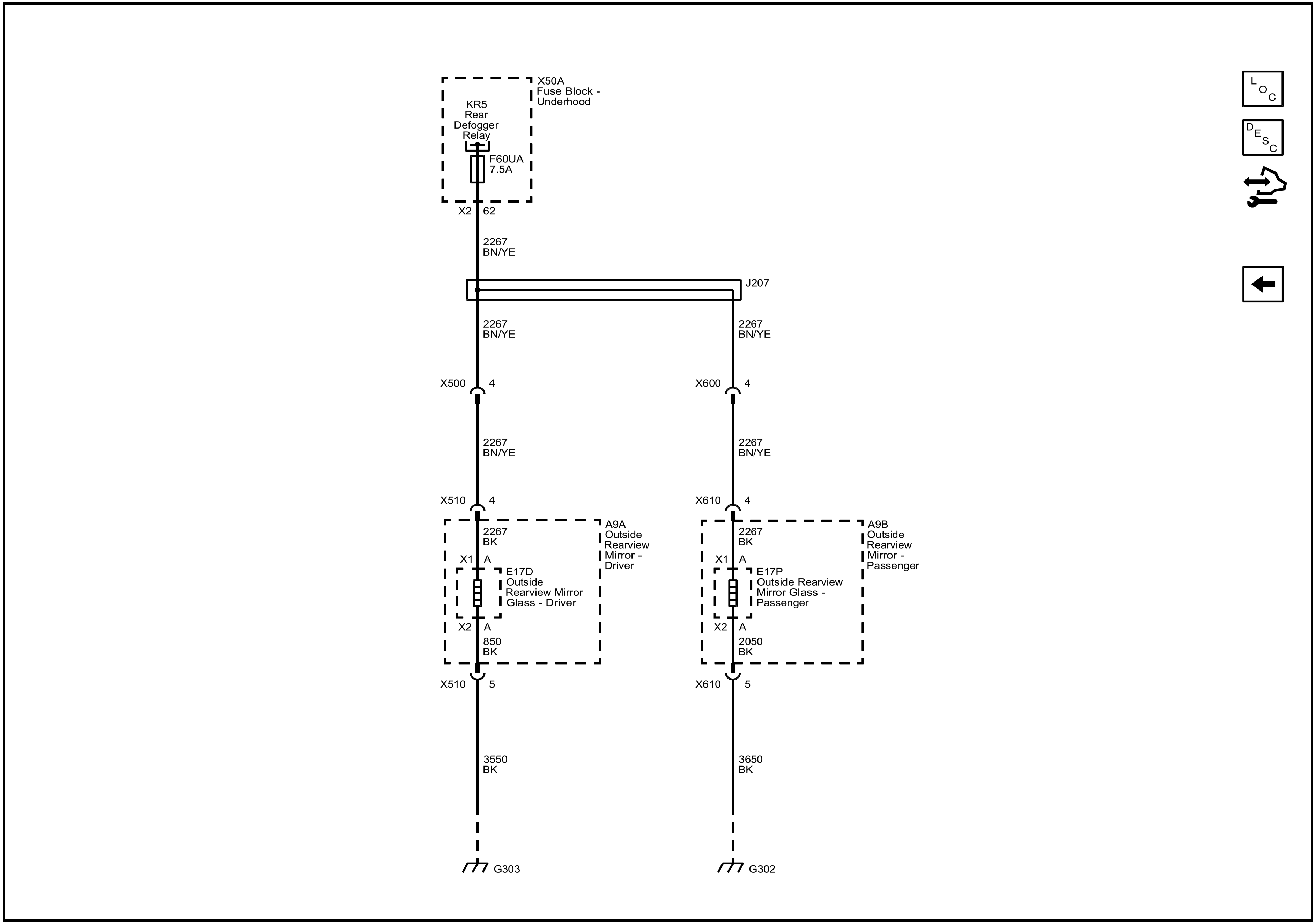
Inside Rearview Mirror Schematics (Auto-Dimming Mirror (DD8))


X51A
Fuse
Block -
Instrument
Panel
KR73
Ignition
Main
Relay
F29DA
10A
X3
13
1739
VT/L-GN
K9
Body
Control
Module
F15DA
X7
3
24
L-GN/WH
J200
24
L-GN/WH
24
L-GN/WH
Exterior
Lights
Schematics
OnStar/Telematics
Schematics
2516
YE/VT
2517
BN/WH
2514
L-GN/WH
2515
L-GN/BK
X301
10
11
X300
4
5
3
2
1739
VT/L-GN
24
L-GN/WH
2516
YE/VT
2517
BN/WH
2514
L-GN/WH
2515
L-GN/BK
UE1
UE1
UE1
UE1
2
1
6
7
3
4
A10
Inside
Rearview
Mirror
A90
Logic
IGN
R
S51
Telematics
Button
Assembly
1.5K
1.5K
10K
SOS
A1
Mirror Dimming
5
3150
BK
G301
L O C
D E S C
4944955

Outside Rearview Mirror Schematics (Driver and Passenger Position)


4944957
L O C
D E S C
B+
X51A Fuse Block - Instrument Panel
F8DA 5A
X1 16
1940 RD/VT
16 X500
1940 RD/VT
J501
1940 RD/VT
12
S52 Outside Rearview Mirror Switch
11
3550 BK
G303
L
R
o
9 3396 L-GN/BK
5 3398 WH
7 3397 YE/VT
10 3389 BN/BK
6 3391 YE/BN
8 3390 VT/L-BU
X500
6 3396 L-GN/BK
3 3398 WH
5 3397 YE/VT
X600
6 3396 L-GN/BK
3 3398 WH
5 3397 YE/VT
X610
3 3396 L-GN/BK
1 3398 WH
2 3397 YE/VT
X510
3
1
2
A9B Outside Rearview Mirror - Passenger
M77P Outside Rearview Mirror Motor - Passenger
3396 GN/WH
3398 WH
3397 D-BU/WH
A9A Outside Rearview Mirror - Driver
M77D Outside Rearview Mirror Motor - Driver
3389 GN/WH
3391 WH
3390 D-BU/WH
M

Outside Rearview Mirror Schematics (Heating (DL9))


X50A
Fuse Block -
Underhood
KR5
Rear
Defogger
Relay
F60UA
7.5A
X2
62
2267
BN/YE
J207
2267
BN/YE
2267
BN/YE
X500
4
X600
4
2267
BN/YE
2267
BN/YE
X510
4
X610
4
A9A
Outside
Rearview
Mirror -
Driver
2267
BK
X1
A
E17D
Outside
Rearview Mirror
Glass - Driver
X2
A
850
BK
A9B
Outside
Rearview
Mirror -
Passenger
2267
BK
X1
A
E17P
Outside Rearview
Mirror Glass -
Passenger
X2
A
2050
BK
X510
5
X610
5
3550
BK
3650
BK
G303
G302
LOC
DESC
4944958

Description and Operation

Automatic Day-Night Mirror Description and Operation

Inside Rearview Mirror with the Automatic Day-Night Feature System Operation

The inside rearview mirror uses 2 photocell sensors. One sensor is the headlight sensor, located on the face side of the mirror. The headlight sensor is used to determine light conditions present at the mirror face. The other sensor is the ambient light sensor, located on the rear of the mirror or windshield side. The ambient light sensor is used to determine the exterior light conditions. With a low exterior light condition detected, and a high light condition from behind of the car, at the headlight sensor, the inside rearview mirror will automatically darken the face of the mirror.

In the daytime, the mirror is in a normal state because of the high exterior light condition that is indicated by the ambient light sensor. With the gear selector lever in the REVERSE position, backup lamp supply voltage is supplied as an input to the inside rearview mirror. The mirror monitors this input to disable the automatic day-night feature. This allows the driver to see objects in the mirror clearly when backing up, even during the night.

Outside Mirror Description and Operation

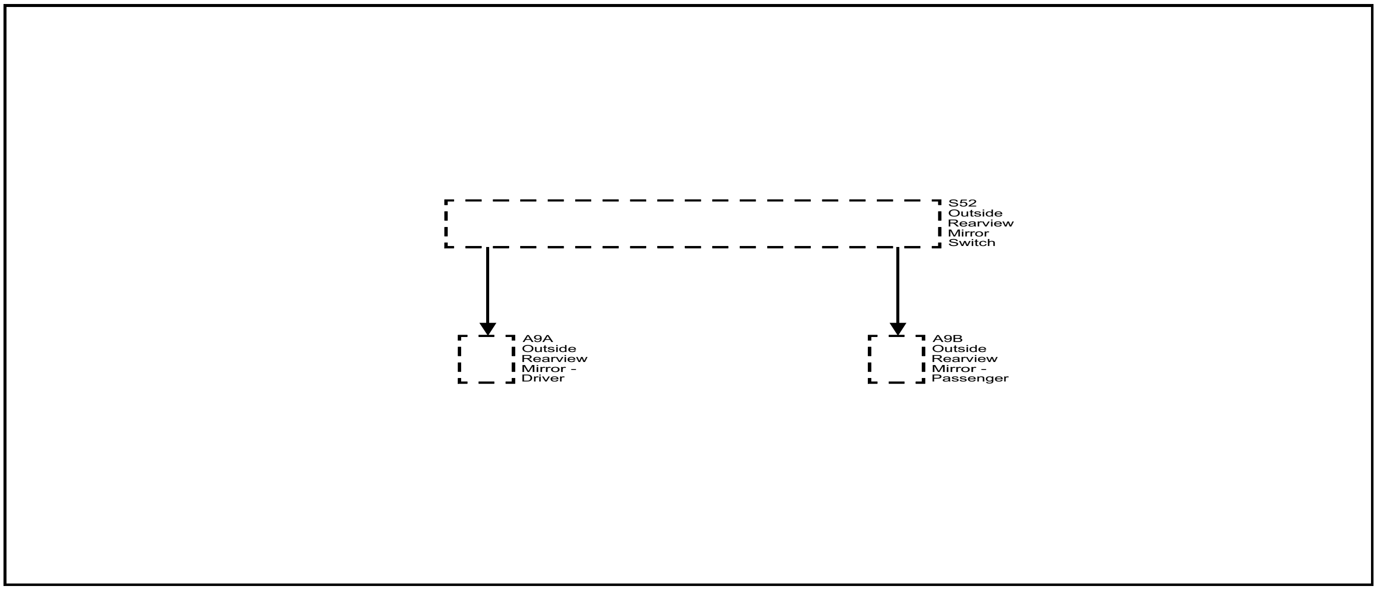
Power Mirror System Components

The power mirror system consists of the following components:

- Outside rearview mirror switch
- Mirror selector switch
- Driver outside rearview mirror
- Passenger outside rearview mirror

Each of the outside rearview mirror contains two motors. The vertical motor operates the mirror in the up and down directions, and the horizontal motor operates the mirror in the left and right directions.

Power Mirrors Without A45 Block Diagram



3270441

Power Mirror System Controls

The outside rearview mirror switch is a four position directional switch: Up, Down, Left and Right.

The mirror select switch is a three position switch: left, neutral/fold, and right.

Power Mirror System Operation

The outside rearview mirror switch receives battery voltage from the underhood fuse block The power mirror switch also receives a constant ground.

The four positions of the direction switch have dual switch contacts. Each of the contacts are connected to opposing sides of the appropriate power mirror motors through the selector switch. The selector switch completes these circuits depending on the position of the selector switch, L or R.

If the selector switch is placed in the L position and the up switch is pressed, battery voltage will be supplied to the left outside rearview mirror vertical motor through the left mirror motor vertical control circuit and ground through the left mirror motor common control circuit. If the down switch is pressed, battery voltage will be supplied to the left outside rearview mirror vertical motor through the left mirror motor common control circuit and ground through the left mirror motor vertical control circuit.

The remainder of the mirror functions operate in the same manner as described above. Placing the power mirror switch in opposing positions, left/right or up/down, will reverse the polarity to the mirror motor, reversing the direction of movement.

Heated Mirrors (If Equipped)

The heated mirrors are controlled through the rear defog relay. Whenever the rear window defogger is turned on battery voltage is supplied to the mirror heater elements through the left and right mirror heater element control circuits.

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Section 3

Driver Information and Entertainment

Image Display Cameras 3-3
  Schematic and Routing Diagrams 3-3
    Image Display Camera Schematics 3-4
  Description and Operation 3-6
    Rear Vision Camera Description and Operation (UVC) 3-6
    Rear Vision Camera Description and Operation (UVB) 3-6

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Image Display Cameras

Schematic and Routing Diagrams

Image Display Camera Schematics (Rear Camera (UVC))

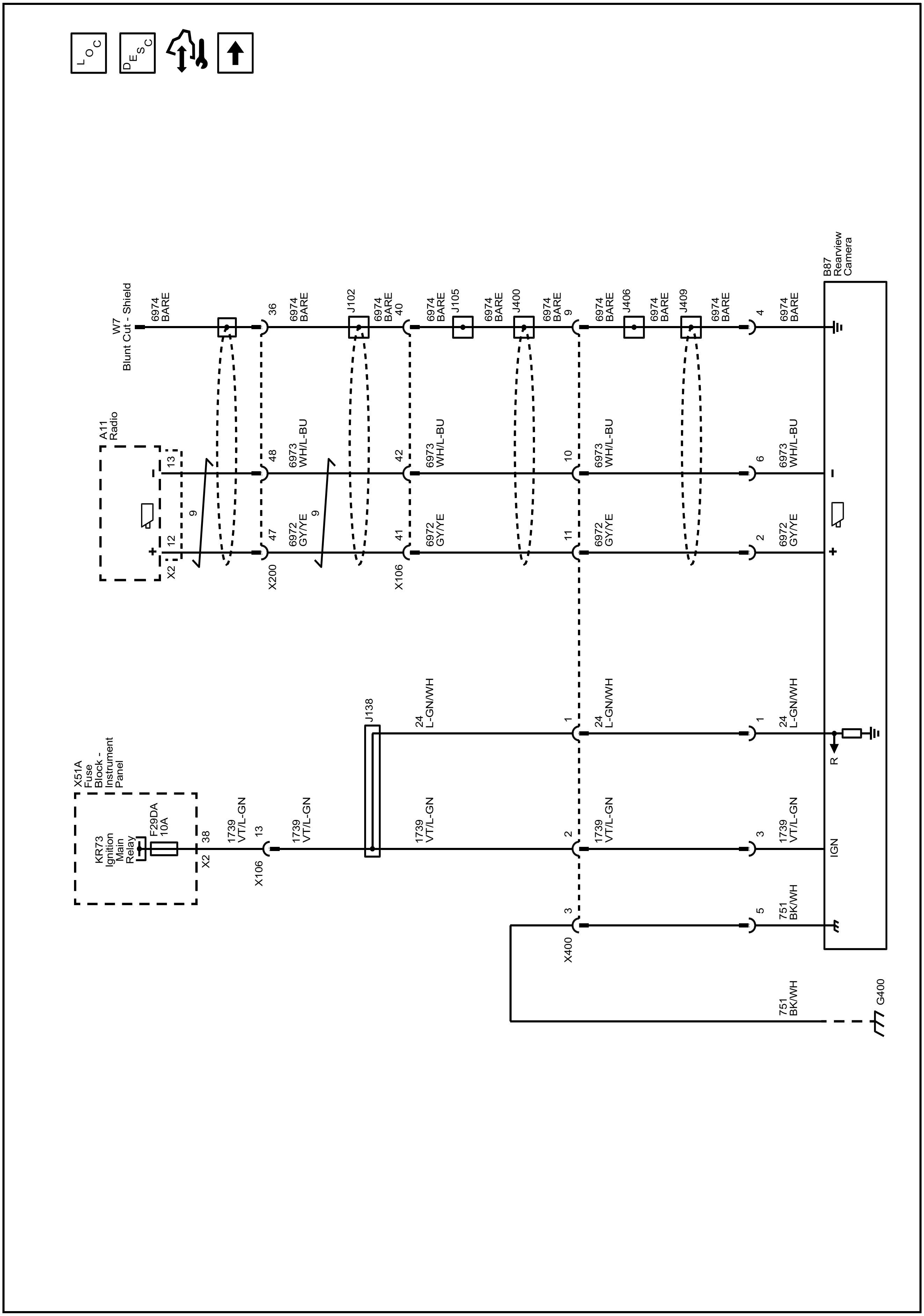
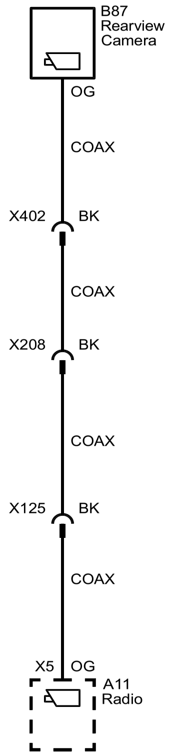

4945003
LOC
DESC
W7
Blunt Cut - Shield
6974
BARE
36
J102
40
J105
J400
9
J406
J409
4
B87
Rearview
Camera
A11
Radio
13
12
X2
9
48
6973
WH/L-BU
47
6972
GY/YE
X200
42
41
X106
10
11
6
2
+
-
X51A
Fuse
Block -
Instrument
Panel
KR73
Ignition
Main
Relay
F29DA
10A
38
1739
VT/L-GN
13
J138
24
L-GN/WH
1
2
3
R
IGN
5
751
BK/WH
X400
G400

Image Display Camera Schematics (Rear Camera (UVB))


B87
Rearview
Camera
OG
COAX
X402
BK
COAX
X208
BK
COAX
X125
BK
COAX
X5
OG
A11
Radio

4945007

Description and Operation

Rear Vision Camera Description and Operation (UVC)

Rear Vision Camera System Operation

The rear vision camera system consists of a video camera located at the rear of the vehicle and the Rado.

When the transmission is placed into REVERSE, a signal indicates to the Radio that the vehicle is in reverse and image display is requested. The rear vision camera receives ignition voltage and a constant ground to power the camera. Video signal + and video signal – circuits carry the video image from the rear vision camera to the radio. Additionally, the video signal circuits are shielded to prevent any interference which may lead to a loss of video signal resolution and a degraded video image. The shield is provided a ground path by the rear vision camera.

The following conditions may cause a degraded rear vision camera image:

- Ice, snow, or mud has built up on the rear vision camera
- Dark conditions
- Extreme light conditions, such as glare from the sun or the headlights of another vehicle
- Damage to the rear of the vehicle
- Extreme high temperatures or extreme temperature changes

If a malfunction is detected in the system, Service Rear Vision Camera may be displayed on the Info Display Module as an indicator to the customer that a problem exists that requires service.

Rear Vision Camera Description and Operation (UVB)

Rear Vision Camera System Operation

The rear vision camera system consists of a video camera located at the rear of the vehicle and the Rado.

When the transmission is placed into REVERSE, a signal is sent to the Radio indicating that camera operation is requested. The rearview camera sends video information to the radio through a coax cable. The coax cable also provides power from the Radio to the rearview camera.

The following conditions may cause a degraded rear vision camera image:

- Ice, snow, or mud has built up on the rear vision camera
- Dark conditions
- Extreme light conditions, such as glare from the sun or the headlights of another vehicle
- Damage to the rear of the vehicle
- Extreme high temperatures or extreme temperature changes

If a malfunction is detected in the system, Service Rear Vision Camera may be displayed on the Info Display Module as an indicator to the customer that a problem exists that requires service.

Section 4

Engine/Propulsion

12 V Starting and Charging 4-3
  Schematic and Routing Diagrams 4-3
    Starting and Charging Schematics 4-4
  Description and Operation 4-7
    Charging System Description and Operation 4-7
    Electrical Power Management Description and Operation 4-10
    Starting System Description and Operation 4-12

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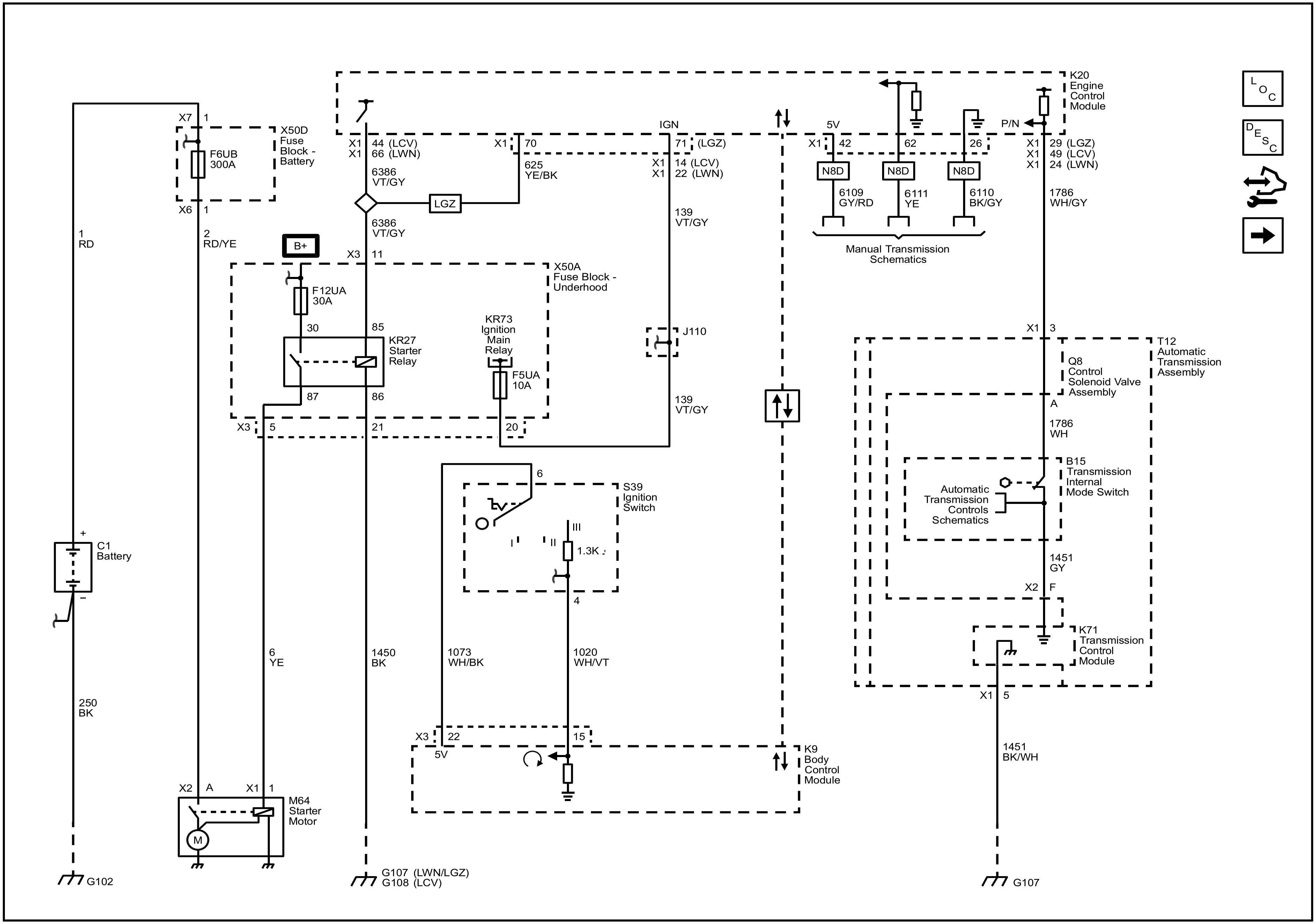
12 V Starting and Charging

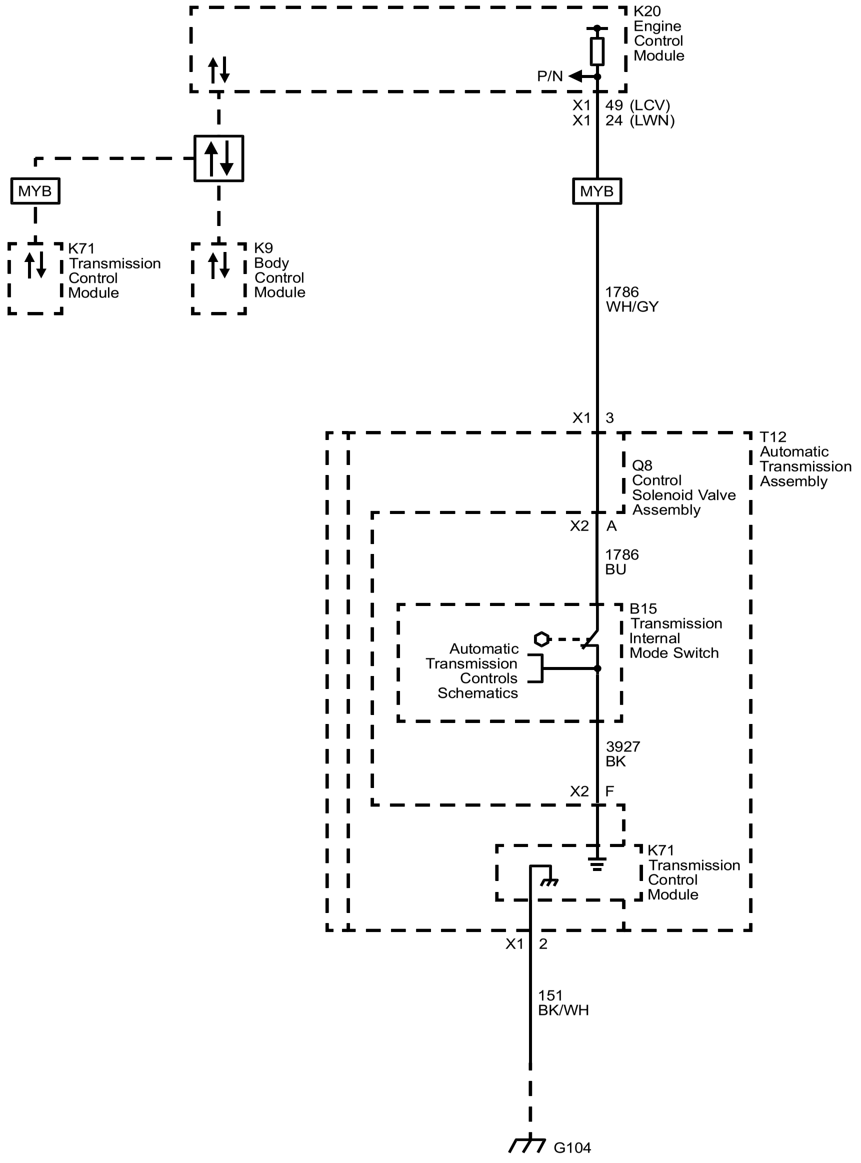
Schematic and Routing Diagrams

Starting and Charging Schematics (Starting (1 of 2))



K20 Engine Control Module
X1 29 (LGZ)
X1 49 (LCV)
X1 24 (LWN)
P/N
1786 WH/GY
5V
X1 42
62
26
N8D
N8D
N8D
6109 GY/RD
6111 YE
6110 BK/GY
Manual Transmission Schematics
IGN
71 (LGZ)
X1 14 (LCV)
X1 22 (LWN)
139 VT/GY
J110
139 VT/GY
X1 70
625 YE/BK
LGZ
X1 44 (LCV)
X1 66 (LWN)
6386 VT/GY
6386 VT/GY
X3 11
X7 1
X50D Fuse Block - Battery
F6UB 300A
X6 1
1 RD
2 RD/YE
B+
X50A Fuse Block - Underhood
F12UA 30A
30
85
KR27 Starter Relay
87
86
KR73 Ignition Main Relay
F5UA 10A
X3 5
21
20
6
S39 Ignition Switch
III
I
II
1.3K
4
C1 Battery
+
–
6 YE
1450 BK
1073 WH/BK
1020 WH/VT
250 BK
X3 22
15
5V
K9 Body Control Module
X2 A
X1 1
M64 Starter Motor
M
G102
G107 (LWN/LGZ)
G108 (LCV)
X1 3
T12 Automatic Transmission Assembly
Q8 Control Solenoid Valve Assembly
A
1786 WH
B15 Transmission Internal Mode Switch
Automatic Transmission Controls Schematics
1451 GY
X2 F
K71 Transmission Control Module
X1 5
1451 BK/WH
G107
L O C
D E S C
4945012

Starting and Charging Schematics (Starting (2 of 2))


K20
Engine
Control
Module
P/N
X1 49 (LCV)
X1 24 (LWN)
MYB
1786
WH/GY
MYB
K71
Transmission
Control
Module
K9
Body
Control
Module
X1 3
T12
Automatic
Transmission
Assembly
Q8
Control
Solenoid Valve
Assembly
X2 A
1786
BU
B15
Transmission
Internal
Mode Switch
Automatic
Transmission
Controls
Schematics
3927
BK
X2 F
K71
Transmission
Control
Module
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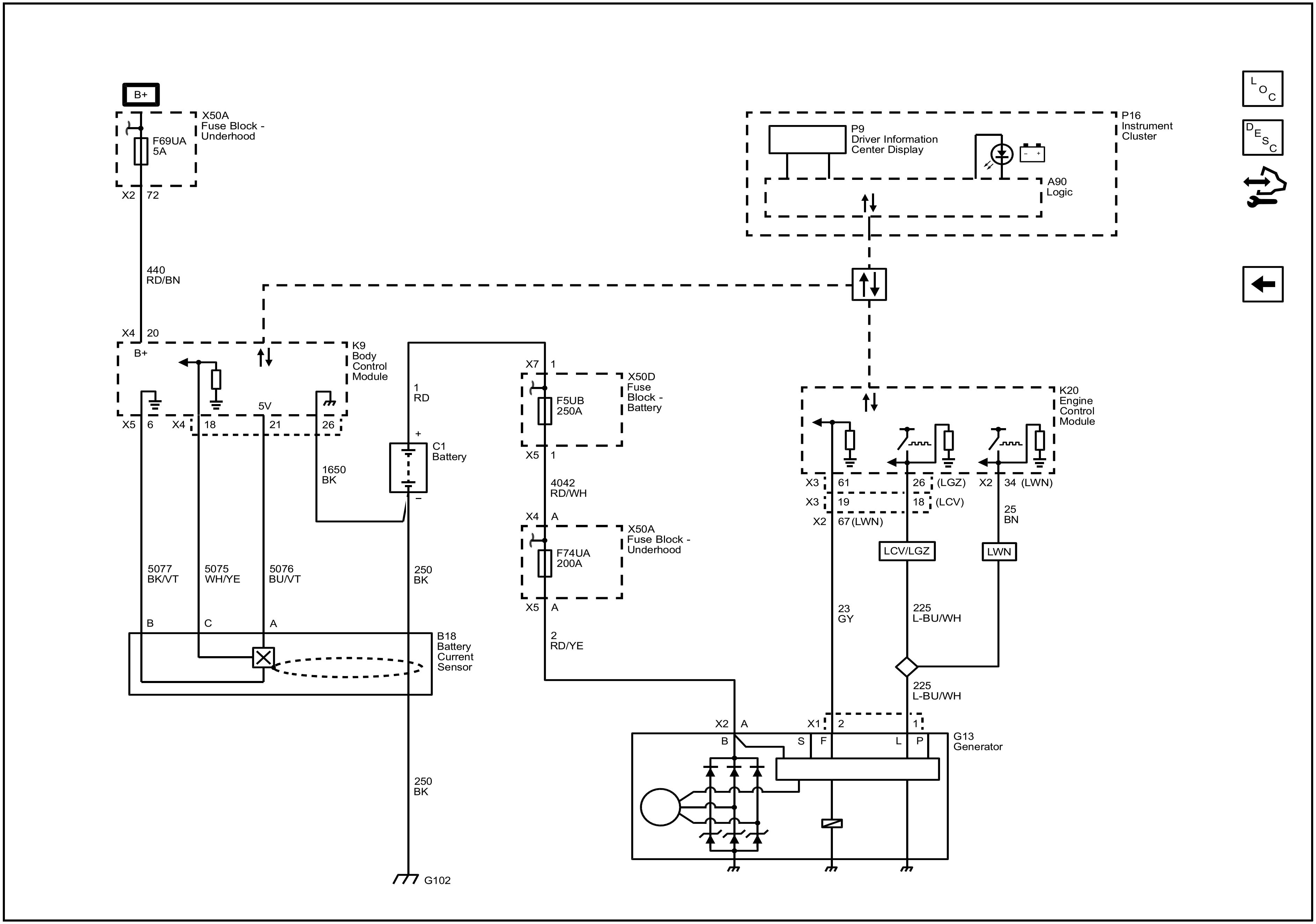
BK/WH
G104
4945014

Starting and Charging Schematics (Charging)


L O C
D E S C
B+
X50A
Fuse Block -
Underhood
F69UA
5A
X2 72
440
RD/BN
X4 20
B+
K9
Body
Control
Module
5V
X5 6
X4 18
21
26
1650
BK
5077
BK/VT
5075
WH/YE
5076
BU/VT
B
C
A
B18
Battery
Current
Sensor
1
RD
+
C1
Battery
−
250
BK
250
BK
G102
X7 1
X50D
Fuse
Block -
Battery
F5UB
250A
X5 1
4042
RD/WH
X4 A
X50A
Fuse Block -
Underhood
F74UA
200A
X5 A
2
RD/YE
P16
Instrument
Cluster
P9
Driver Information
Center Display
A90
Logic
K20
Engine
Control
Module
X3 61
26 (LGZ)
X2 34 (LWN)
X3 19
18 (LCV)
X2 67 (LWN)
25
BN
LCV/LGZ
LWN
23
GY
225
L-BU/WH
225
L-BU/WH
X2 A
X1 2
1
B
S F
L P
G13
Generator
4945015

Description and Operation

Charging System Description and Operation

Electrical Power Management Overview

The electrical power management system is designed to monitor and control the charging system and send diagnostic messages to alert the driver of possible problems with the battery and generator. This electrical power management system primarily utilizes existing on-board computer capability to maximize the effectiveness of the generator, to manage the load, improve battery state-of-charge and life, and minimize the system's impact on fuel economy. The electrical power management system performs 3 functions:

- Monitor the battery voltage and estimate the battery condition
- Take corrective actions by boosting idle speeds, and adjusting the regulated voltage
- Perform diagnostics and driver notification

The battery condition is estimated during ignition/vehicle off and during ignition/vehicle on. During ignition/vehicle off the state-of-charge of the battery is determined by measuring the open-circuit voltage. The state-of-charge is a function of the acid concentration and the internal resistance of the battery, and is estimated by reading the battery open circuit voltage when the battery has been at rest for several hours.

Any time the ignition/vehicle is on, the vehicle algorithm continuously estimates battery state-of-charge based on adjusted net amp hours, battery capacity, initial state-of-charge, and calculated temperature.

While the engine is running, the battery degree of discharge is primarily determined by the integrated battery current sensor, to obtain net amp hours.

In addition, the electrical power management function is designed to perform regulated voltage control to improve battery state-of-charge, battery life, and fuel economy. This is accomplished by using knowledge of the battery state-of-charge and temperature to set the charging voltage to an optimum battery voltage level for recharging without detriment to battery life.

Charging System Components

Generator

The engine drive belt drives the generator. When the rotor is spun, it induces an alternating current (AC) into the stator windings. The AC voltage is then sent through a series of diodes for rectification. The rectified voltage has been converted into a direct current (DC) for use by the vehicles electrical system to maintain electrical loads and the battery charge. The voltage regulator integral to the generator controls the output of the generator; It is not serviceable. The voltage regulator controls the amount of current provided to the rotor. If the generator has field control circuit fault, the generator defaults to an output voltage of 13.8 V.

The generator is serviced as a complete assembly. If there is a diagnosed fault in the generator, it must be replaced as an assembly.

Generator Pulley

The pulley drives the Generator via the engine drive belt. There are 2 types of pulleys:

1. Conventional solid Pulley which is bolted to the Generator stator shaft. This Pulley can be serviced separately.

2. One Way Clutch Pulley or Overrunning Alternator Decoupler Pulley allows the Generator to spin freely when the engine rapidly slows down on sudden deceleration. This part is not serviceable and the Generator needs to be replaced as an assembly.

Body Control Module (BCM)

The BCM communicates with the Engine Control Module (ECM) and the instrument cluster for electrical power management operation. The BCM determines the output of the generator and sends the information to the ECM for control of the generator turn on signal circuit. It monitors the generator field duty cycle signal circuit information sent from the ECM for control of the generator. It monitors the battery current sensor, the battery positive voltage circuit, and estimates battery temperature to determine battery state of charge. The BCM also performs idle boost.

Battery Current Sensor (if applicable)

The Battery Current Sensor is a serviceable component that is connected to the negative battery cable at the battery. The battery current sensor is a 3-wire hall effect current sensor. The battery current sensor monitors the battery current. It directly inputs to the BCM. It creates a 5 volt Pulse Width Modulation (PWM) signal of 128 Hz with a duty cycle of 0–100%. Normal duty cycle is between 5–95%. Between 0–5% and 95–100% are for diagnostic purposes.

Battery Sensor Module (if applicable)

The BCM monitors the Battery Sensor Module for battery state of current, state of health, and battery charge via serial data. If the battery is determined to be in poor state of health or having a low state of charge, the BCM will not allow the ECM to perform an auto-stop.

Engine Control Module (ECM)

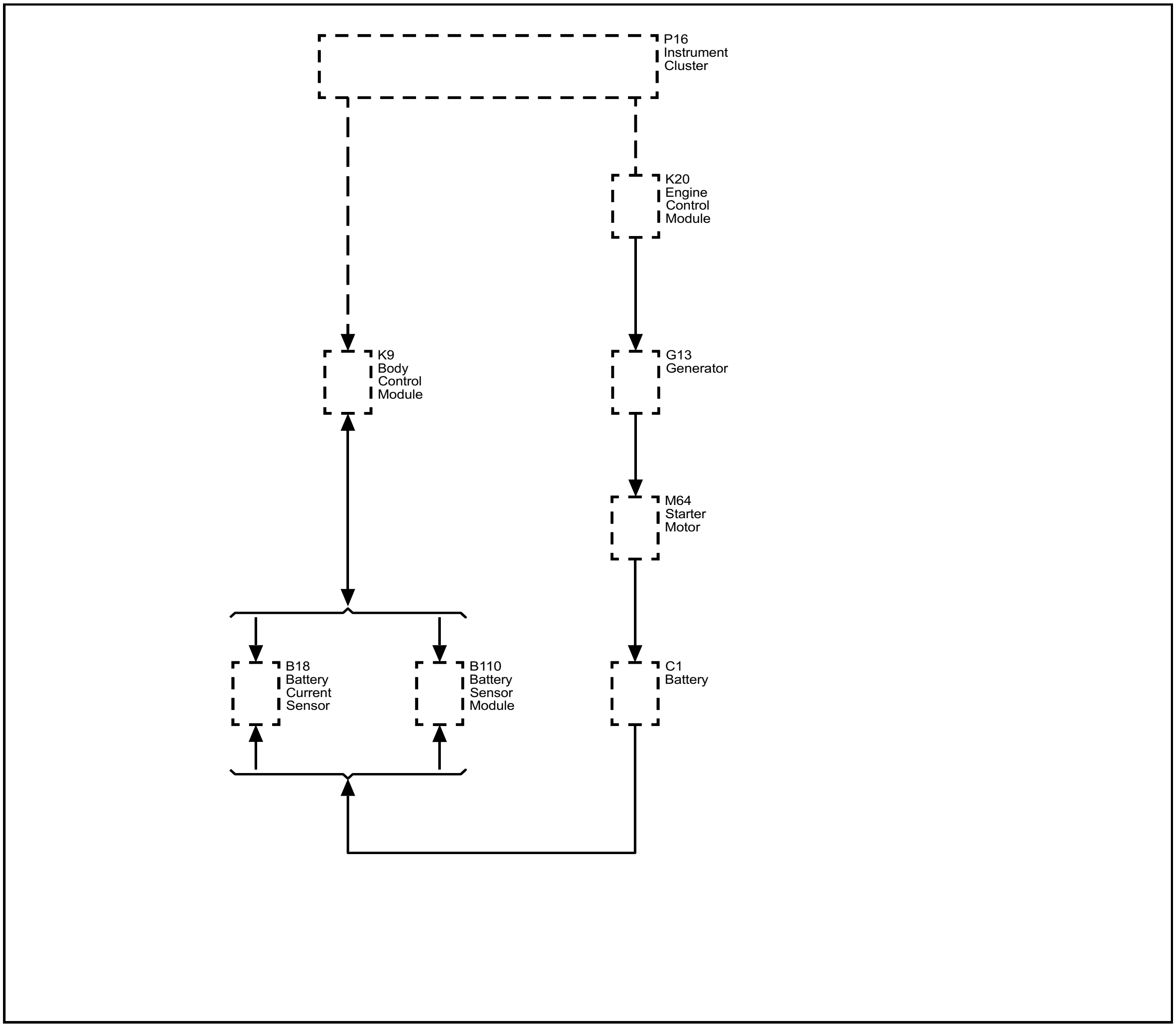
When the engine is running, the generator turn-on signal is sent to the generator from the ECM, turning on the regulator. The generator's voltage regulator controls current to the rotor, thereby controlling the output voltage. The rotor current is proportional to the electrical pulse width supplied by the regulator. When the engine is started, the regulator senses generator rotation by detecting AC voltage at the stator through an internal wire. Once the engine is running, the regulator varies the field current by controlling the pulse width. This regulates the generator output voltage for proper battery charging and electrical system operation. The generator field duty terminal is connected internally to the voltage regulator and externally to the ECM. When the voltage regulator detects a charging system problem, it grounds this circuit to signal the ECM that a problem exists. The ECM monitors the generator field duty cycle signal circuit, and receives control decisions based on information from the BCM.

Instrument Cluster

As a means of displaying the charging system functions, some vehicles may be equipped with a voltmeter gauge on the instrument cluster and/or a system voltage display in the driver information center. These will indicate the current vehicle system voltage.

The instrument cluster also provides customer notification if there is a concern with the charging system. There are two means of notification: a charge indicator on the instrument cluster and/or a service system message displayed on the Driver Information Center (DIC) if equipped.

Charging System Block Diagram


P16
Instrument
Cluster
K20
Engine
Control
Module
K9
Body
Control
Module
G13
Generator
M64
Starter
Motor
B18
Battery
Current
Sensor
B110
Battery
Sensor
Module
C1
Battery
3603724

Charging System Operation

The purpose of the charging system is to maintain the battery charge and vehicle loads. There are 6 modes of operation and they include:

- Battery Sulfation Mode
- Charge Mode
- Fuel Economy Mode
- Head lamp Mode
- Start Up Mode
- Voltage Reduction Mode

The ECM Controls the Generator through the generator turn–on signal circuit, also known as the Generator L-terminal. The ECM monitors the generator performance though the Generator field duty cycle signal circuit, also known as the generator F-terminal.

The Generator turn–on signal (Generator L-terminal) is a Pulse Width Modulation (PWM) signal of 128 Hz with a duty cycle of 0–100%. Normal duty cycle is between 5–95%. 0–5% and 95–100% are for diagnostic purposes, with 0–5% monitoring for an open circuit and 95–100% monitoring for a short to ground at a fixed 13.8 V. The following table shows the commanded duty cycle and output voltage of the Generator:

Commanded Duty Cycle	Generator Output Voltage (+/- .25 V)
0–5%	13.8 V
10%	11 V
20%	11.56 V
30%	12.13 V
40%	12.69 V
50%	13.25 V
60%	13.81 V
70%	14.38 V
80%	14.94 V
90%	15.5 V
95–100%	13.8 V

The Generator provides a PWM feedback signal of the Generator voltage output through the Generator field duty cycle signal circuit to the ECM. This information is sent to the Body Control Module (BCM). The Generator field duty cycle signal (Generator F-terminal) is a PWM signal of 60–460 Hz with a duty cycle of 0–100%. Normal duty cycle is between 5–100%. 0–5% is reserved for diagnostic purposes.

As the charging systems works to maintain the battery charge and manage vehicle electrical loads, it is normal for the voltmeter gauge on the instrument cluster or the system voltage displayed in the DIC to fluctuate or change. This does not indicate a malfunction. Depending on the battery state of charge and the vehicle electrical load, these values may be anywhere from 12.5 V to 15.5 V.

Charging System Modes

Battery Sulfation Mode

The BCM will enter this mode when the interpreted Generator output voltage is less than 13.2 V for 45 minutes. When this condition exists the BCM will enter Charge Mode for 2–3 minutes. The BCM will then determine which mode to enter depending on voltage requirements.

Charge Mode

The BCM will enter Charge Mode when ever one of the following conditions are met:

- Windshield wipers are ON for more than 3 s.
- Climate Control Voltage Boost Mode Request is true, as sensed by the HVAC control module via serial data. High speed cooling fan, rear defogger, and HVAC high speed blower operation can cause the BCM to enter the Charge Mode.
- The estimated battery temperature is less than 0° C (32°F).
- Battery State of Charge is less than 80%.
- Vehicle speed is greater than 145 km/h (90 mph)
- A current sensor malfunction exists.
- System voltage is determined to be below 12.56 V

When any one of these conditions is met, the system will set targeted generator output voltage to a charging voltage between 13.9–15.5 V, depending on the battery state of charge and estimated battery temperature.

Fuel Economy Mode

The BCM will enter Fuel Economy Mode when the estimated battery temperature is at least 0°C (32°F) but less than or equal to 80°C (176°F), the calculated battery current is less than 15 A and greater than −8 A, and the battery state-of-charge is greater than or equal to 80%. Its targeted generator output voltage is the open circuit voltage of the battery and can be between 12.5–13.1 V. When fuel economy mode is active, the generator is not charging, only maintaining open circuit battery voltage. The BCM will exit this mode and enter Charge Mode when any of the conditions described above are present.

Headlamp Mode

The BCM will enter Headlamp Mode when ever the head lamps are ON (high or low beams). Voltage will be regulated between 13.9–14.5 V.

Start Up Mode

When the engine is started the BCM sets a targeted generator output voltage of 14.5 V for 30 s.

Tow/Haul Mode (if applicable)

Pressing the Tow/Haul Mode button located on the center stack, the vehicle system voltage is raised and the remote (non-vehicle) battery will be charged. Having the headlamps on will raise the system voltage and if the Tow/Haul button is applied it will not serve any purpose. The voltage is regulated between 13.9-14.5 V.

Instrument Cluster Operation

Charge Indicator Operation

The instrument cluster illuminates the charge indicator and displays a warning message in the driver information center if equipped, when the one or more of the following occurs:

- The ECM detects that the generator output is less than 11 V or greater than 16 V. The instrument cluster receives a serial data message from the ECM requesting illumination.
- The instrument cluster determines that the system voltage is less than 11 V or greater than 16 V for more than 30 s. The instrument cluster receives a serial data message from the BCM indicating there is a system voltage range concern.
- The instrument cluster performs the displays test at the start of each ignition cycle. The indicator illuminates for approximately 3 s.

Driver Information Center Message: BATTERY NOT CHARGING SERVICE CHARGING SYSTEM or SERVICE BATTERY CHARGING SYSTEM

The BCM and the ECM will send a serial data message to the driver information center for the BATTERY NOT CHARGING SERVICE CHARGING SYSTEM or SERVICE BATTERY CHARGING SYSTEM message to be displayed. It is displayed when a charging system DTC is a current DTC. The message is turned off when the conditions for clearing the DTC have been met.

Voltmeter Gauge and/or System Voltage Display (if equipped)

As a means of displaying the charging system functions, some vehicles may be equipped with a voltmeter gauge on the instrument cluster and/or a system voltage display in the driver information center. These will indicate the current vehicle system voltage.

As the charging systems works to maintain the battery charge and manage vehicle electrical loads, it is normal for the voltmeter gauge on the instrument cluster or the system voltage display in the driver information center to fluctuate or change. This does not indicate a malfunction. Depending on the battery state of charge and the vehicle electrical load, these values may be anywhere from 12.5 V to 15.5 V.

Electrical Power Management Description and Operation

Electrical Power Management

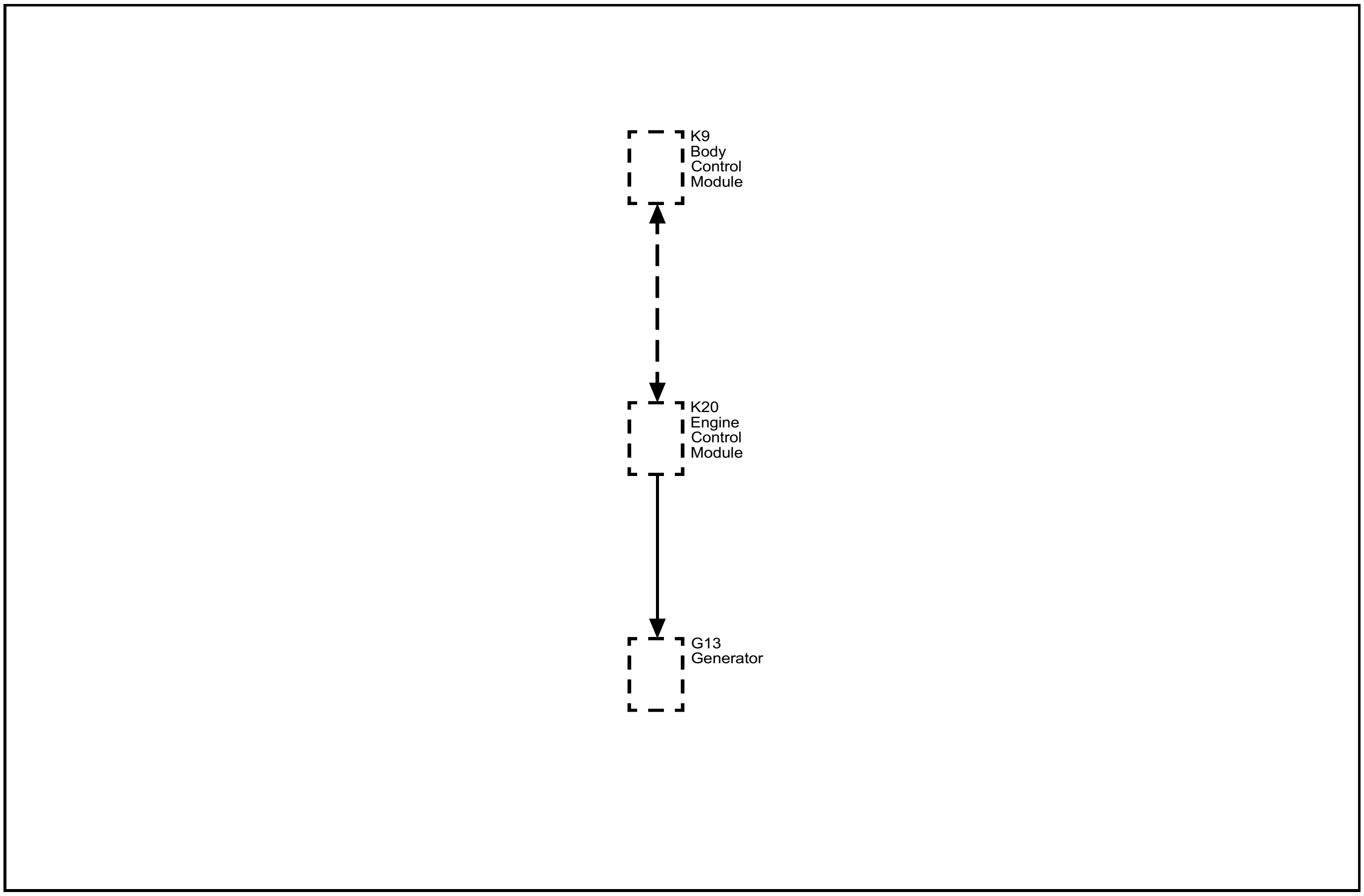
The electrical power management is used to monitor and control the charging system and alert the driver of possible problems within the charging system. The electrical power management system makes the most efficient use of the generator output, improves the battery state-of-charge, extends battery life, and manages system electrical loads.

The load shed operation is a means of reducing electrical loads during a low voltage or low battery state-of-charge condition.

The idle boost operation is a means of improving generator performance during a low voltage or low battery state-of-charge condition.

Each electrical power management function, either idle boost or load shed, is activated in incremental steps. For example, idle boost 1 must be active before idle boost 2 can be active. The criteria used by the body control module (BCM) to regulate electrical power management are outlined below:

Electrical Power Management Block Diagram



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Idle Boost and Load Shed With Current Sensor

Function	Battery Temperature Calculation	Battery Voltage Calculation	Amp-Hour Calculation	Action Taken
Idle Boost 1 Start	Less Than −15°C (5°F)	Less Than 13 V	—	First level Idle boost requested
Idle Boost 1 Start	—	—	Battery has a net loss greater than 0.6 Ah	First level Idle boost requested
Idle Boost 1 Start	—	Less Than 11 V	—	First level Idle boost requested
Idle Boost 1 End	Greater Than −10°C (14°F)	Greater Than 12 V	Battery has a net loss less than 0.2 Ah	First level Idle boost request cancelled
Idle Boost 2 Start	—	—	Battery has a net loss greater than 1.6 Ah	Second level Idle boost requested
Idle Boost 2 Start	—	Less Than 11 V	—	Second level Idle boost requested
Idle Boost 2 End	—	Greater Than 12 V	Battery has a net loss less than 0.8 Ah	Second level Idle boost request cancelled
Load Shed 1 Start	—	—	Battery has a net loss of 4 Ah	Rear Defrost, Heated Mirrors, Heated Seats, HVAC cycled OFF for 20% of their cycle
Load Shed 1 Start	—	Less Than 11 V	—	Rear Defrost, Heated Mirrors, Heated Seats, HVAC cycled OFF for 20% of their cycle
Load Shed 1 End	—	Greater Than 12 V	Battery has a net loss of less than 2 Ah	Clear Load Shed 1
Idle Boost 3 Start	—	—	Battery has a net loss of 10 Ah	Third level Idle boost requested
Idle Boost 3 Start	—	Less Than 11 V	—	Third level Idle boost requested
Idle Boost 3 End	—	Greater Than 12 V	Battery has a net loss of less than 6.0 Ah	Third level Idle boost request cancelled
Load Shed 2 Start	—	—	Battery has a net loss greater than 12 Ah	Rear Defrost, Heated Mirrors, Heated Seats, HVAC cycled OFF for 50% of their cycle. The BATTERY SAVER ACTIVE message will be displayed on the DIC
Load Shed 2 Start	—	Less Than 11 V	—	Rear Defrost, Heated Mirrors, Heated Seats, HVAC cycled OFF for 50% of their cycle. The BATTERY SAVER ACTIVE message will be displayed on the DIC
Load Shed 2 End	—	Greater Than 12 V	Battery has a net loss of less than 8 Ah	Clear Load Shed 2
Load Shed 3 Start	—	Less Than 11.9 V	Battery has a net loss greater than 20 Ah	Rear Defrost, Heated Mirrors, Heated Seats, HVAC cycled OFF for 100% of their cycle. The BATTERY SAVER ACTIVE message will be displayed on the DIC

Idle Boost and Load Shed With Current Sensor (cont'd)

Function	Battery Temperature Calculation	Battery Voltage Calculation	Amp-Hour Calculation	Action Taken
Load Shed 3 Start	—	Less Than 11 V	—	Rear Defrost, Heated Mirrors, Heated Seats, HVAC cycled OFF for 100% of their cycle. The BATTERY SAVER ACTIVE message will be displayed on the DIC
Load Shed 3 End	—	Greater Than 12.6 V	Battery has a net loss of less than 13 Ah	Clear Load Shed 3

Idle Boost and Load Shed Without Current Sensor (based on battery voltage)

Function	Battery Temperature Calculation	Battery Voltage Calculation	Action Taken
Idle Boost 1 Start	Less Than −15°C (5°F)	Less Than 13 V	First level Idle boost requested
Idle Boost 1 Start	—	Less Than 12.6 V	First level Idle boost requested
Idle Boost 1 End	Greater Than −15°C (5°F)	—	First level Idle boost request cancelled
Idle Boost 1 End	—	Greater Than 13 V	First level Idle boost request cancelled
Idle Boost 2 Start	—	Less Than 12.4 V	Second level Idle boost requested
Idle Boost 2 End	—	Greater Than 12.5 V	Second level Idle boost request cancelled
Load Shed 1 Start	—	Less Than 12.3 V	Rear Defrost, Heated Mirrors, Heated Seats, HVAC cycled OFF for 20% of their cycle
Load Shed 1 End	—	Greater Than 12.4 V	Clear Load Shed 1
Idle Boost 3 Start	—	Less Than 10 V	Third level Idle boost requested
Idle Boost 3 End	—	Greater Than 12.3 V	Third level Idle boost request cancelled
Load Shed 2 Start	—	Less Than 12.1 V	Rear Defrost, Heated Mirrors, Heated Seats, HVAC cycled OFF for 50% of their cycle. The BATTERY SAVER ACTIVE message will be displayed on the DIC
Load Shed 2 End	—	Greater Than 12.2 V	Clear Load Shed 2
Load Shed 3 Start	—	Less Than 11.9 V	Rear Defrost, Heated Mirrors, Heated Seats, HVAC cycled OFF for 100% of their cycle. The BATTERY SAVER ACTIVE message will be displayed on the DIC
Load Shed 3 End	—	Greater Than 12.0 V	Clear Load Shed 3

Starting System Description and Operation

Starter Motor Operation (Without KL9)

The starter motors are non-repairable. They have pole pieces that are arranged around the armature. Both solenoid windings are energized. The pull-in winding circuit is completed to the ground through the starter motor. The windings work together magnetically to pull and hold in the plunger. The plunger moves the shift lever. This action causes the starter drive assembly to rotate on the armature shaft spline as it engages with the flywheel ring gear on the engine. Moving at the same time, the plunger also closes the solenoid switch contacts in the starter solenoid. Full battery voltage is applied directly to the starter motor and it cranks the engine.

As soon as the solenoid switch contacts close, current stops flowing thorough the pull-in winding because battery voltage is applied to both ends of the windings. The hold-in winding remains energized. Its magnetic field is strong enough to hold the plunger, shift lever, starter drive assembly, and solenoid switch contacts in place to continue cranking the engine. When the engine starts, pinion overrun protects the armature from excessive speed until the switch is opened.

When the crank signal is removed, the starter relay opens and battery voltage is removed from the starter solenoid S terminal. Current flows from the motor contacts through both windings to the ground at the end of the hold-in winding. However, the direction of the current flow through the pull-in winding is now opposite the direction of the current flow when the winding was first energized.

The magnetic fields of the pull-in and hold-in windings now oppose one another. This action of the windings, along with the help of the return spring, causes the starter drive assembly to disengage and the solenoid switch contacts to open simultaneously. As soon as the contacts open, the starter circuit is turned off.

Enhanced Starter Motor Operation (KL9)

The Engine Stop/Start system in GM vehicles automatically turns off the engine when the vehicle comes to a stop under certain driving conditions, and can quickly restart the engine in about 0.3 seconds when commanded to do so.

In order to smoothly restart the engine as quickly as possible while managing the greater number of engine starts, the Stop/Start system uses an enhanced starter motor that operates differently from a conventional starter motor. It has a high performance electric motor and a stronger pinion engagement mechanism than a conventional starter. It also has independent control of the pinion and motor.

The enhanced starter motor continues using the typical pinion engagement mechanism with a starter solenoid that drives the pinion gear to engage or disengage the flywheel of the engine. When engaged, the starter motor can rotate the engine flywheel and, in turn, the crankshaft.

On the enhanced starter of a Stop/Start system the operation is done in two separate functions inside the solenoid, Starter Motor and Pinion Actuator. Each function controlled individually by the ECM. There are two separate relays to control the two separate parts of the enhanced solenoid:

- KR27 Starter Motor Relay
- KR27C Starter Pinion Actuator Relay

The two individually-controlled relays allow for smooth engagement of the pinion gear into the flywheel with minimum noise and wear.

When the vehicle is coming to a stop, just before the engine stops rotating (at approximately 50 RPM) during stop/start operation, the ECM energizes the Starter Pinion Solenoid Actuator Relay to easily push the pinion gear into the flywheel gear without gear clash. (Fig. 8) When the engine stops rotating during Stop/Start operation (Auto Stop mode), the starter pinion gear is fully engaged, ready for the starter motor to become energized to quickly start the engine again.

A secondary need for the starter pinion to be driven into the flywheel gear before the engine stops rotating is to address quickly changing demands on the engine. For example, when a driver is slowing nearly to a stop — and the Stop/Start system is preparing for Auto Stop mode — but suddenly decides to release the brake and accelerate

In this situation, the engine has already stopped rotating, or nearly so. A conventional starter cannot restart the engine until the engine has completely stopped. However, with the enhanced starter, the starter pinion gear is fully engaged and ready to begin rotating the engine even before it fully stops turning. Otherwise, the engine would actually have to stop rotating before the pinion can engage smoothly to begin a restart.

To prevent a lag in engine operation, the ECM uses predictive speed matching of the flywheel gear speed and the pinion gear speed to engage the pinion gear into the flywheel gear without gear clash before the engine fully stops. By predicting how long it takes the starter motor to spin up using an algorithm, the pinion gear speed can be matched to the flywheel gear speed. The result is an almost instant restart that is possible at extremely low engine speeds.

Circuit Description

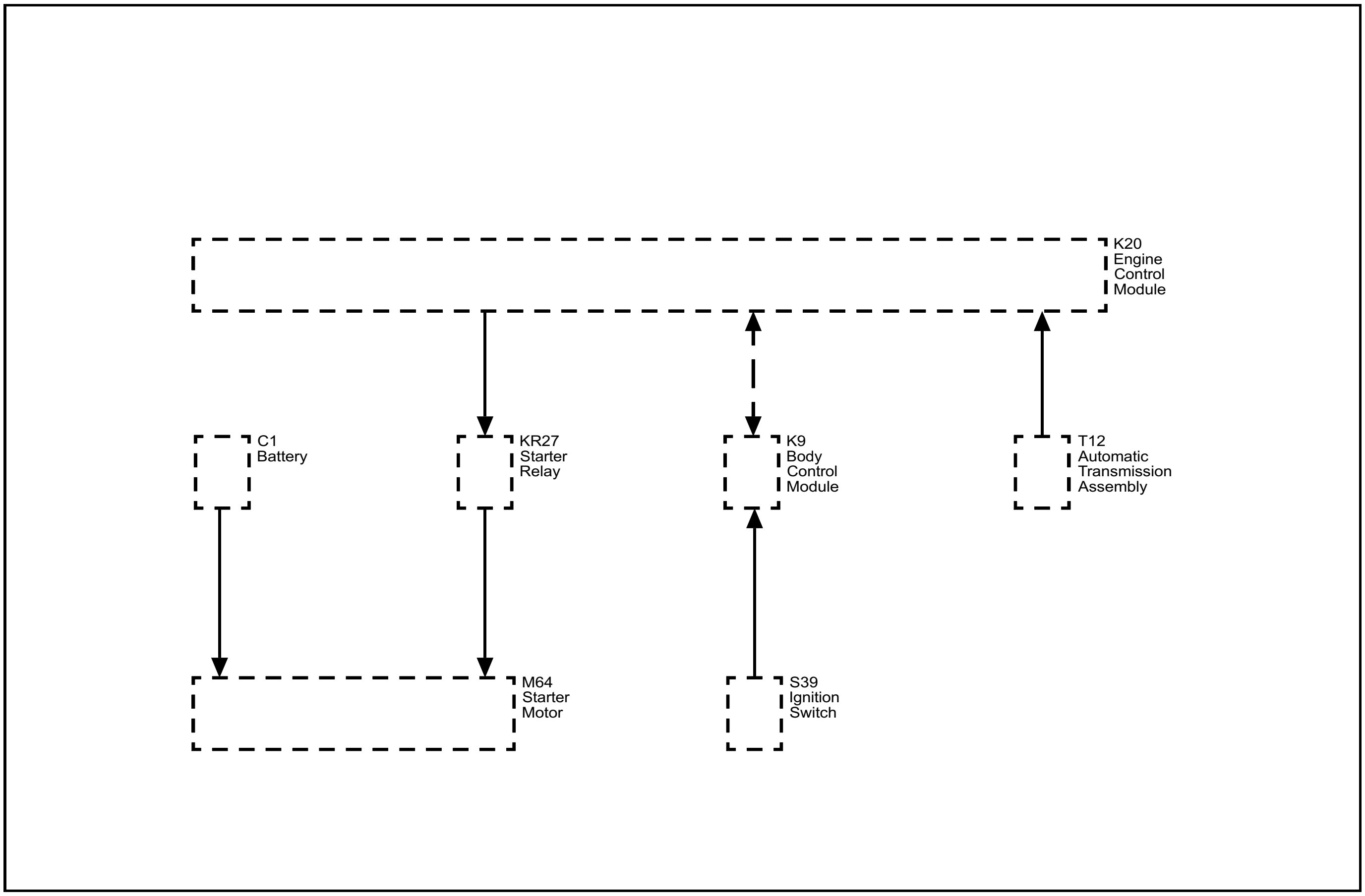
Keyless Start

When the Ignition mode switch is placed in the crank position, a discrete signal is supplied to the body control module (BCM) notifying it that the ignition is in the crank position. The BCM then sends a serial data message to the engine control module (ECM) that crank has been requested. The ECM then verifies that the clutch is fully depressed or the automatic transmission is in Park/Neutral. If it is, the ECM then supplies 12 V to the control circuit of the starter relay. When this occurs, battery positive voltage is supplied through the switch side of the crank relay to the S terminal of the starter solenoid.

Key Start

When the ignition switch is placed in the Start position, a discrete signal is supplied to the body control module (BCM) notifying it that the ignition is in the Start position. The BCM then sends a message to the engine control module (ECM) notifying it that CRANK has been requested. The ECM verifies that the transmission is in Park or Neutral. If it is, the ECM then supplies 12 V to the control circuit of the crank relay. When this occurs, battery positive voltage is supplied through the switch side of the crank relay to the S terminal of the starter solenoid.

Starting System Block Diagram


K20
Engine
Control
Module
C1
Battery
KR27
Starter
Relay
K9
Body
Control
Module
T12
Automatic
Transmission
Assembly
M64
Starter
Motor
S39
Ignition
Switch

3603725

Section 5

Power and Signal Distribution

Power Outlets 5-3
Schematic and Routing Diagrams 5-3
Cigar Lighter/Power Outlet Schematics 5-4
Description and Operation 5-6
Power Outlets Description and Operation 5-6
Wiring Systems and Power Management 5-7
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Power Distribution Schematics 5-45
Power Moding Schematics 5-62
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Power Mode Description and Operation 5-780
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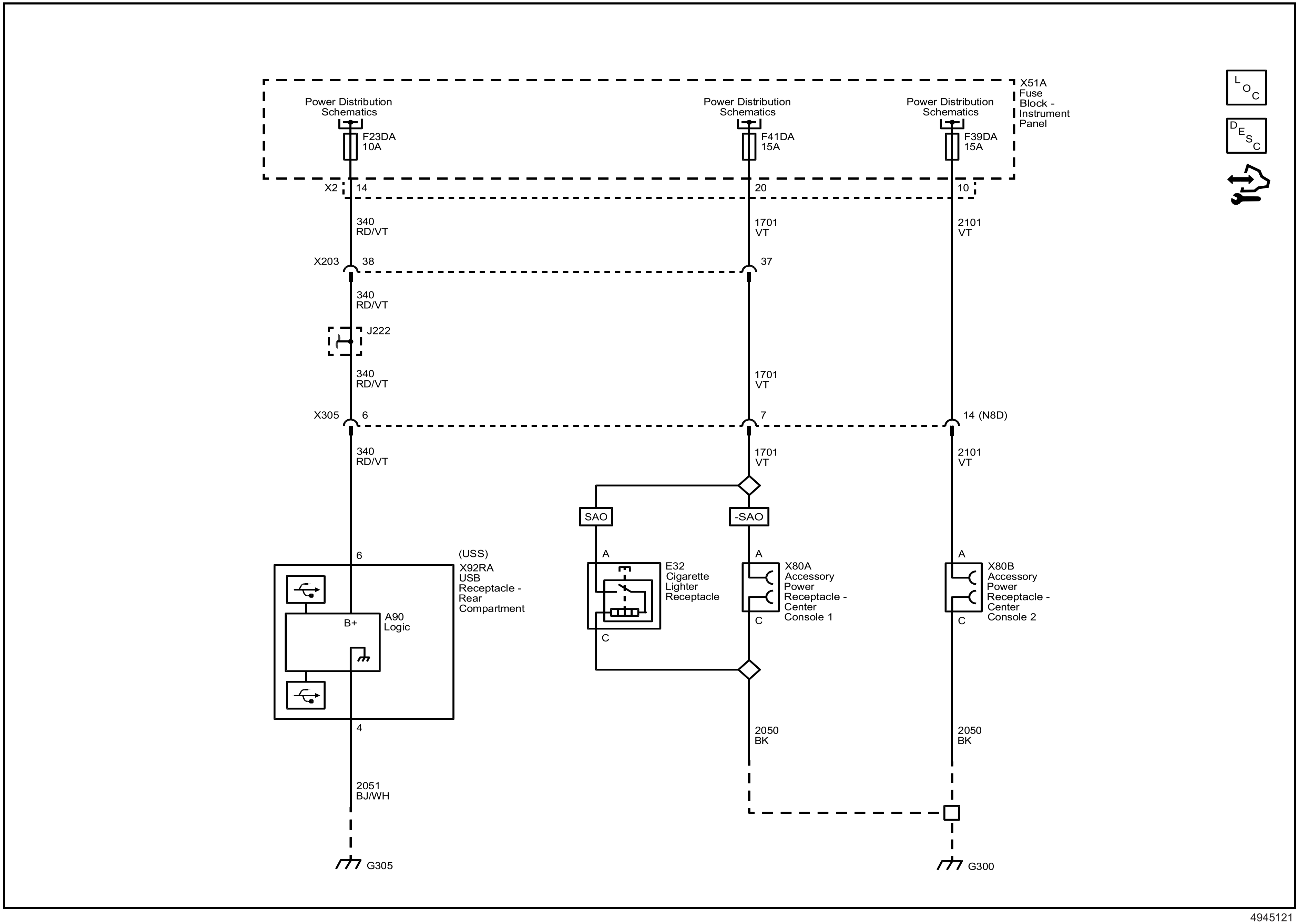
BLANK

Power Outlets

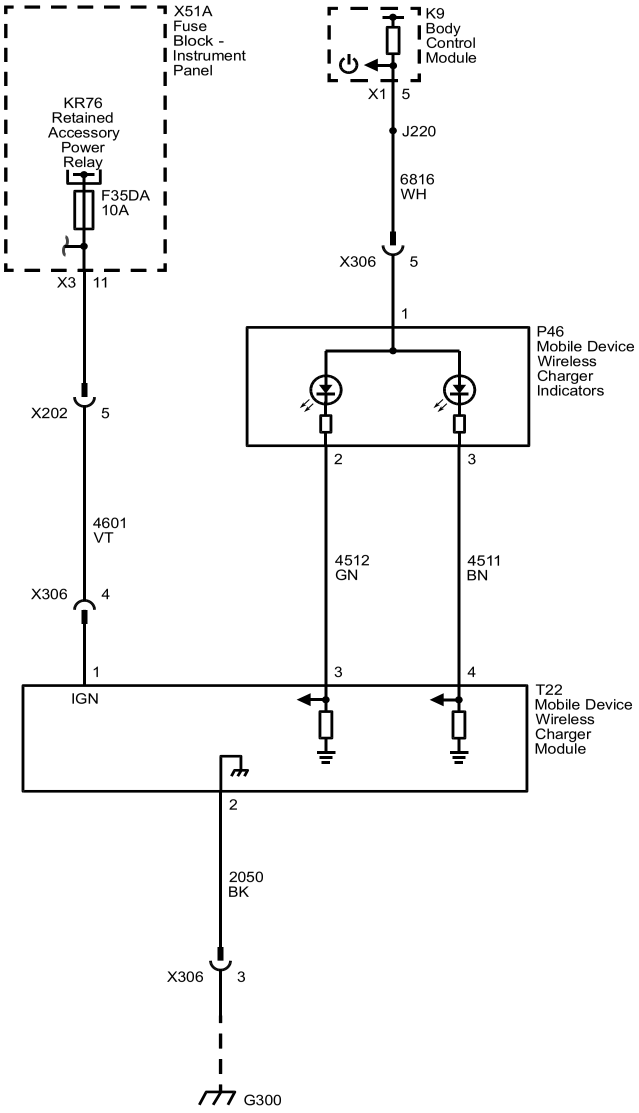
Schematic and Routing Diagrams

Cigar Lighter/Power Outlet Schematics (12-Volt DC Power Outlets)



X51A Fuse Block - Instrument Panel
Power Distribution Schematics
F23DA 10A
F41DA 15A
F39DA 15A
X2
14
20
10
340 RD/VT
1701 VT
2101 VT
X203
38
37
J222
X305
6
7
14 (N8D)
SAO
-SAO
A
C
(USS) X92RA USB Receptacle - Rear Compartment
A90 Logic
B+
4
E32 Cigarette Lighter Receptacle
X80A Accessory Power Receptacle - Center Console 1
X80B Accessory Power Receptacle - Center Console 2
2050 BK
2051 BJ/WH
G305
G300
4945121

Cigar Lighter/Power Outlet Schematics (Wireless Charging (K4C))


X51A
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KR76
Retained
Accessory
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Relay
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10A
X3
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X202
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4601
VT
X306
4
K9
Body
Control
Module
X1
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J220
6816
WH
X306
5
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P46
Mobile Device
Wireless
Charger
Indicators
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4512
GN
4511
BN
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IGN
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4
T22
Mobile Device
Wireless
Charger
Module
2
2050
BK
X306
3
G300

4945122

Description and Operation

Power Outlets Description and Operation

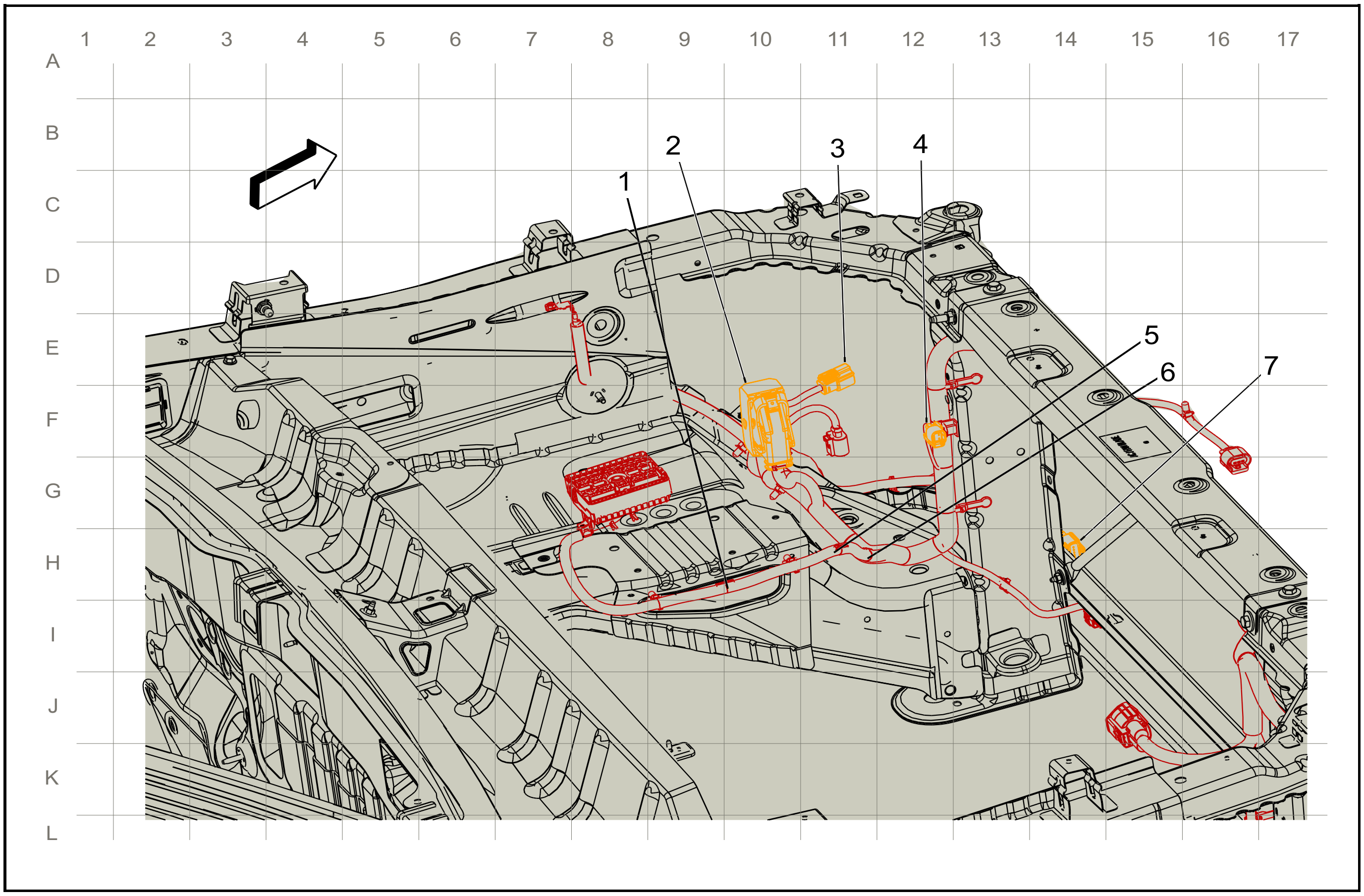
Power Outlet Receptacle Description and Operation

The vehicle is fitted with 12 V accessory power receptacles. The accessory power receptacles are controlled by an ignition operated relay. The accessory power receptacles are operational when the ignition is turned to either the On or the Accessories positions. The accessory power receptacles may be configured to be operational when the ignition is Off by changing the position of the 50A fuse from the F44DA position to the F40DA position in the instrument panel fuse block.

Wiring Systems and Power Management

Schematic and Routing Diagrams

Harness Routing Views (Forward Lamp Harness Routing - Left Engine Compartment)

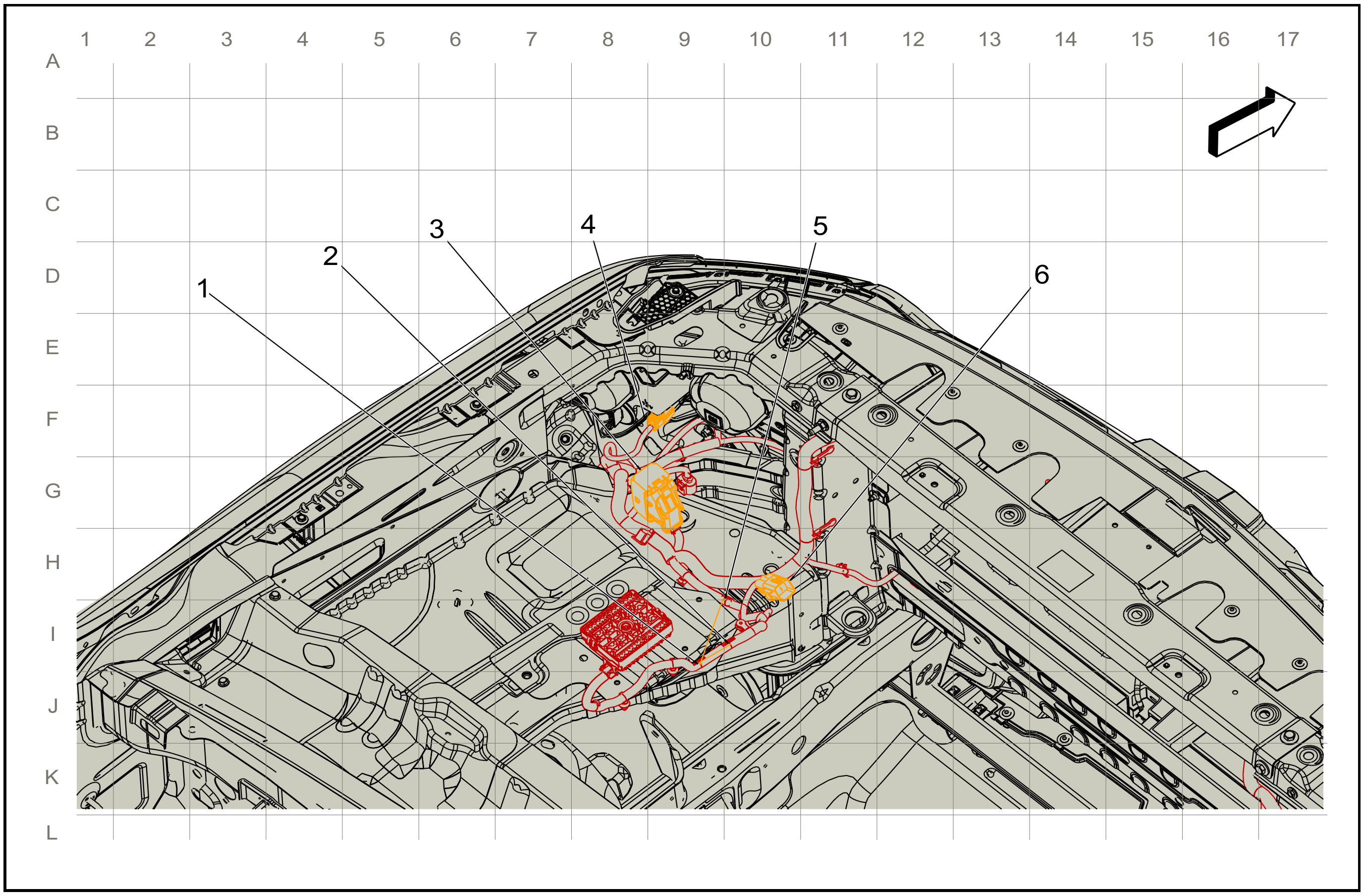


3924711

Items

(1)	J117 Forward Lamp Harness
(2)	X102 Forward Lamp Harness to Body Harness (48 cavities)
(3)	X110 Forward Lamp Harness to Left Front Lamp Harness (6 cavities)
(4)	X104 Forward Lamp Harness to Forward Lamp Extension Harness (2 cavities) (LCV)
(5)	J118 Forward Lamp Harness
(6)	J119 Forward Lamp Harness
(7)	X105 Forward Lamp Harness to Ambient Temperature Sensor Extension Harness (6 cavities)

Harness Routing Views (Forward Lamp Harness Routing - Left Engine Compartment (LWN))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4122367

Items

(1) J117 Forward Lamp Harness

(2) J118 Forward Lamp Harness

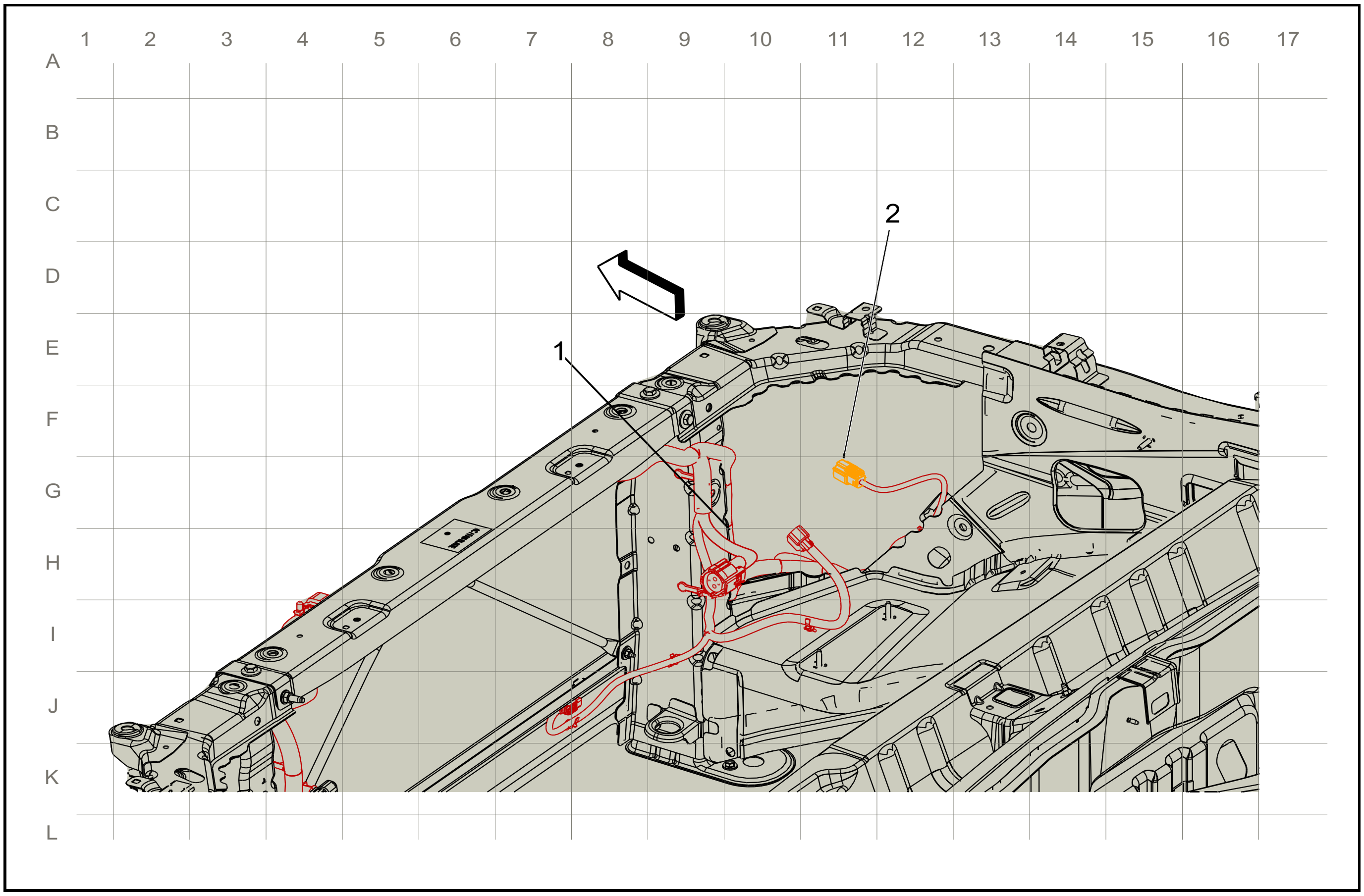
(3) X102 Forward Lamp Harness to Body Harness (48 cavities)

(4) X110 Forward Lamp Harness to Left Front Lamp Harness (6 cavities)

(5) J119 Forward Lamp Harness

(6) X109 Engine Harness to Forward Lamp Harness (4 cavities) (LWN)

Harness Routing Views (Forward Lamp Harness Routing - Right Engine Compartment)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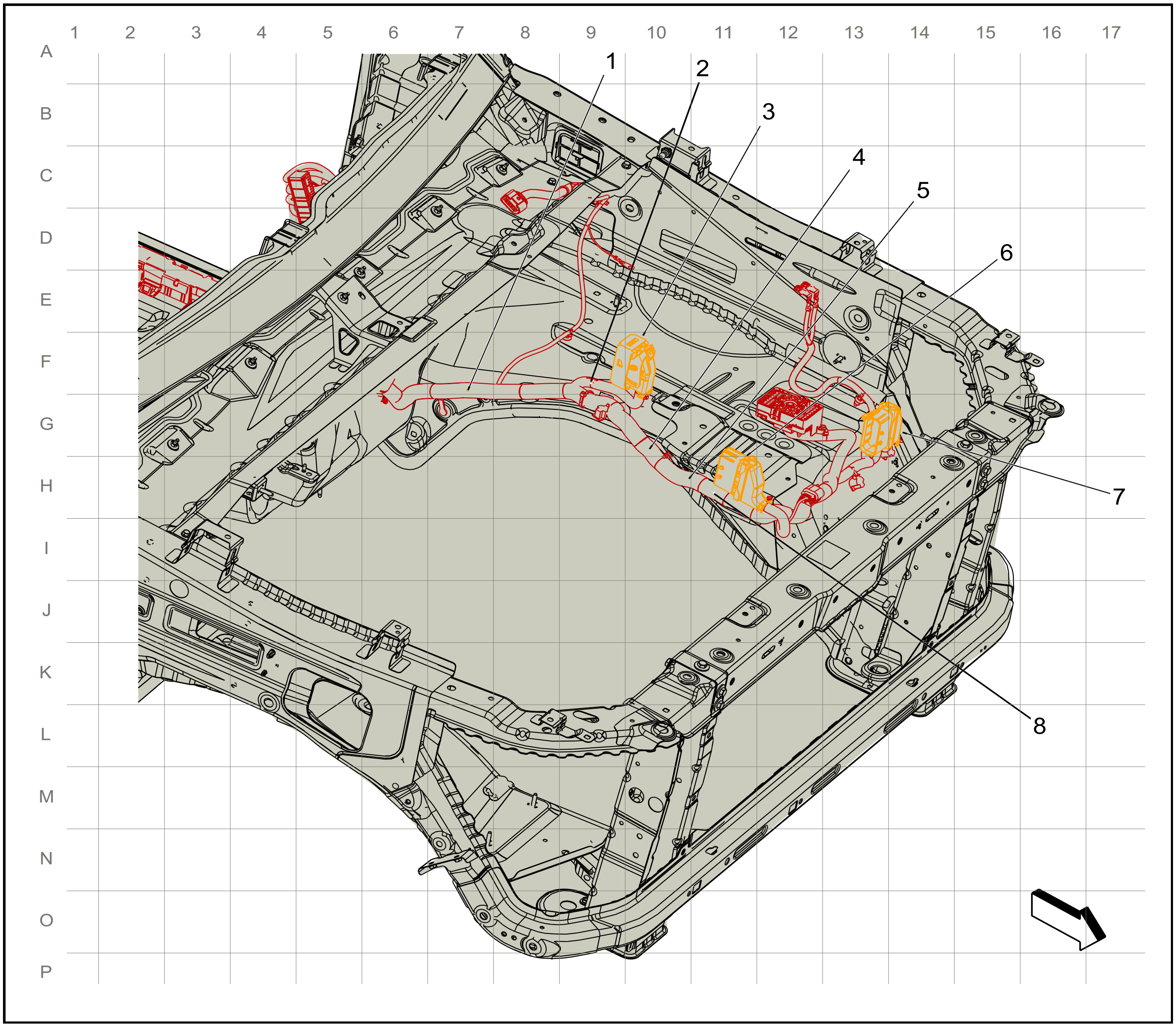
3924775

Items

(1)	J120 Forward Lamp Harness
(2)	X120 Forward Lamp Harness to Right Front Lamp Harness (6 cavities)

Harness Routing Views (Body Harness Routing - Left Engine Compartment (LCV/LGZ))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4122608

Items

(1) J103 Body Harness

(2) J102 Body Harness

(3) X106 Body Harness to Chassis Harness (48 cavities)

(4) J123 Body Harness

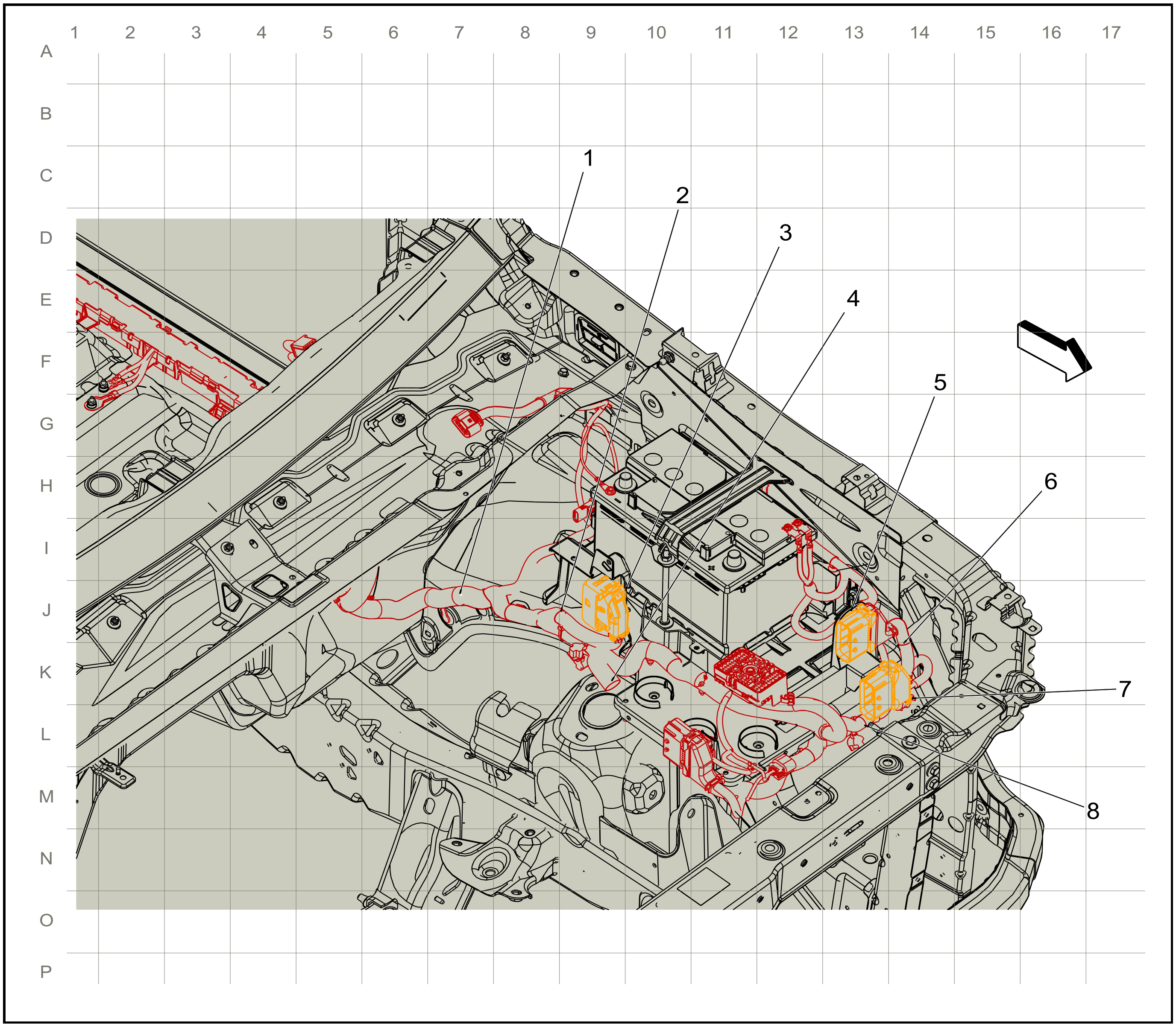
(5) J101 Body Harness

(6) X101 Engine Harness to Body Harness (48 cavities)

(7) X102 Forward Lamp Harness to Body Harness (48 cavities)

(8) J100 Body Harness

Harness Routing Views (Body Harness Routing - Left Engine Compartment (LWN))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4122370

Items

(1) J103 Body Harness

(2) J102 Body Harness

(3) X106 Body Harness to Chassis Harness (48 cavities)

(4) J123 Body Harness

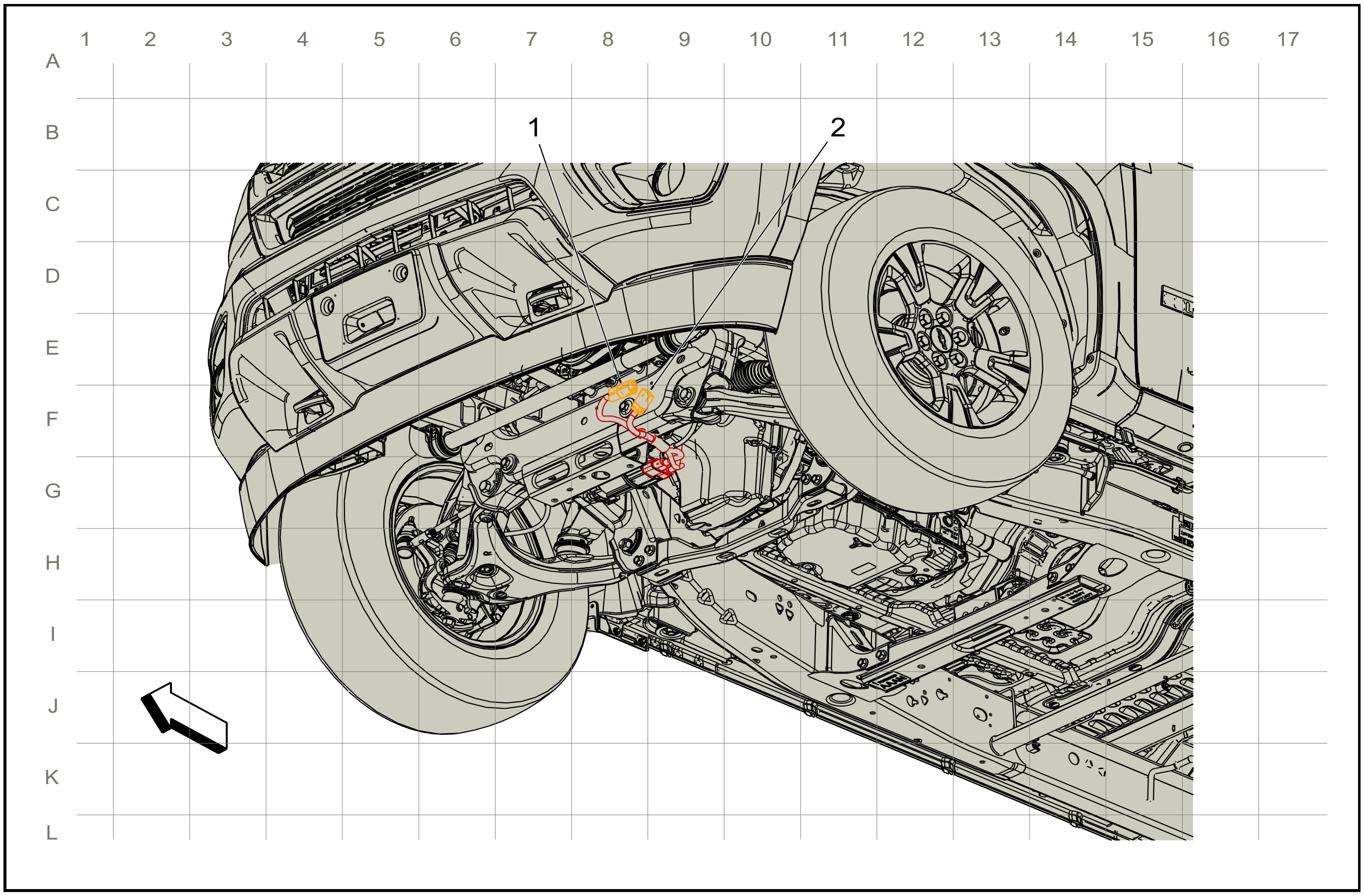
(5) X101 Engine Harness to Body Harness (48 cavities)

(6) J101 Body Harness

(7) X102 Forward Lamp Harness to Body Harness (48 cavities)

(8) J100 Body Harness

Harness Routing Views (Body Harness Routing - Center Engine Compartment)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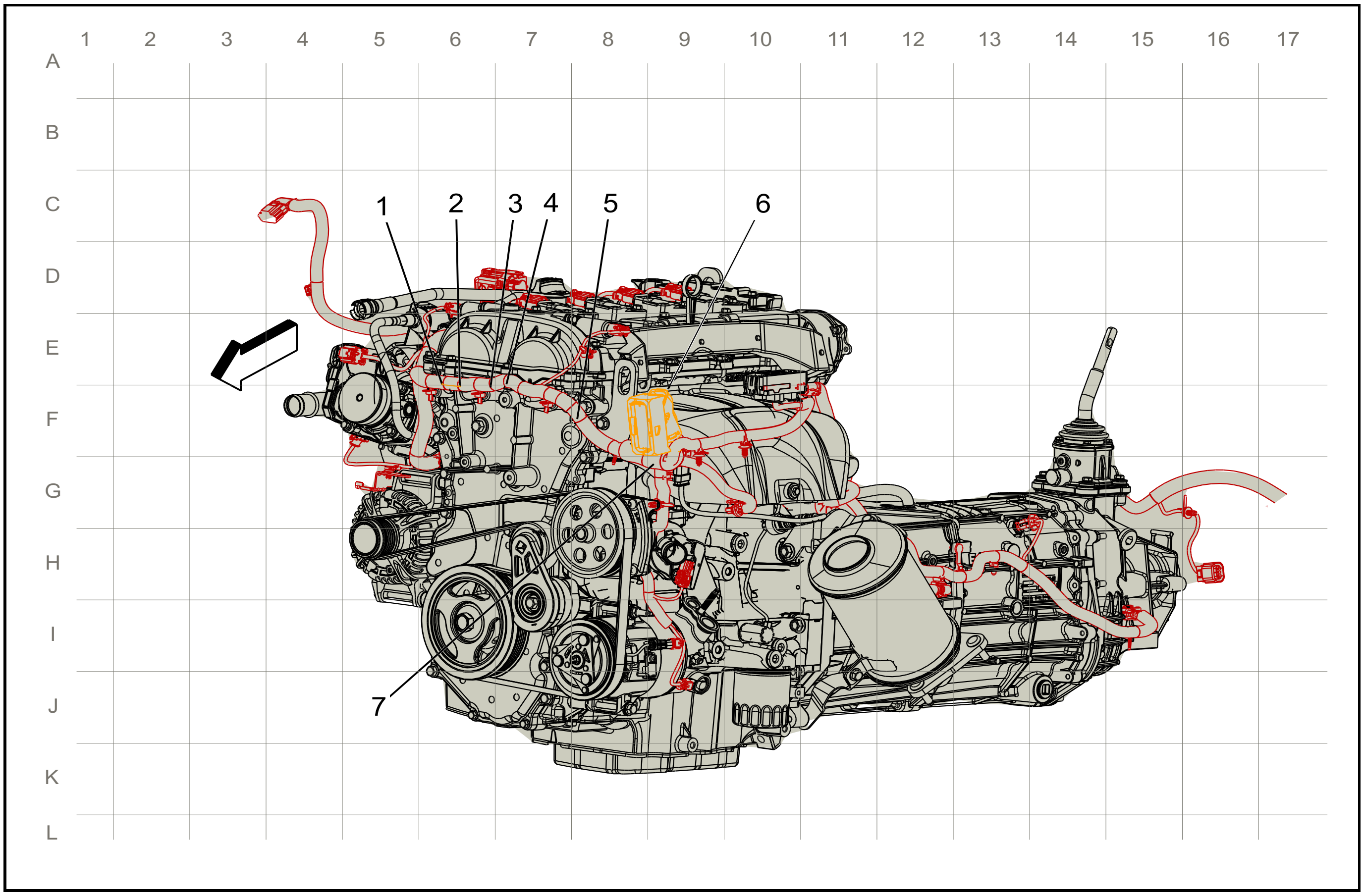
3986412

Items

(1) X100 Battery Cable Harness to Power Steering Harness (4 cavities)

(2) X103 Chassis Harness to Power Steering Harness (16 cavities)

Harness Routing Views (Engine Harness Routing - Left Front (LCV))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3924802

Items

(1) J111 Engine Harness

(2) J109 Engine Harness

(3) J107 Engine Harness

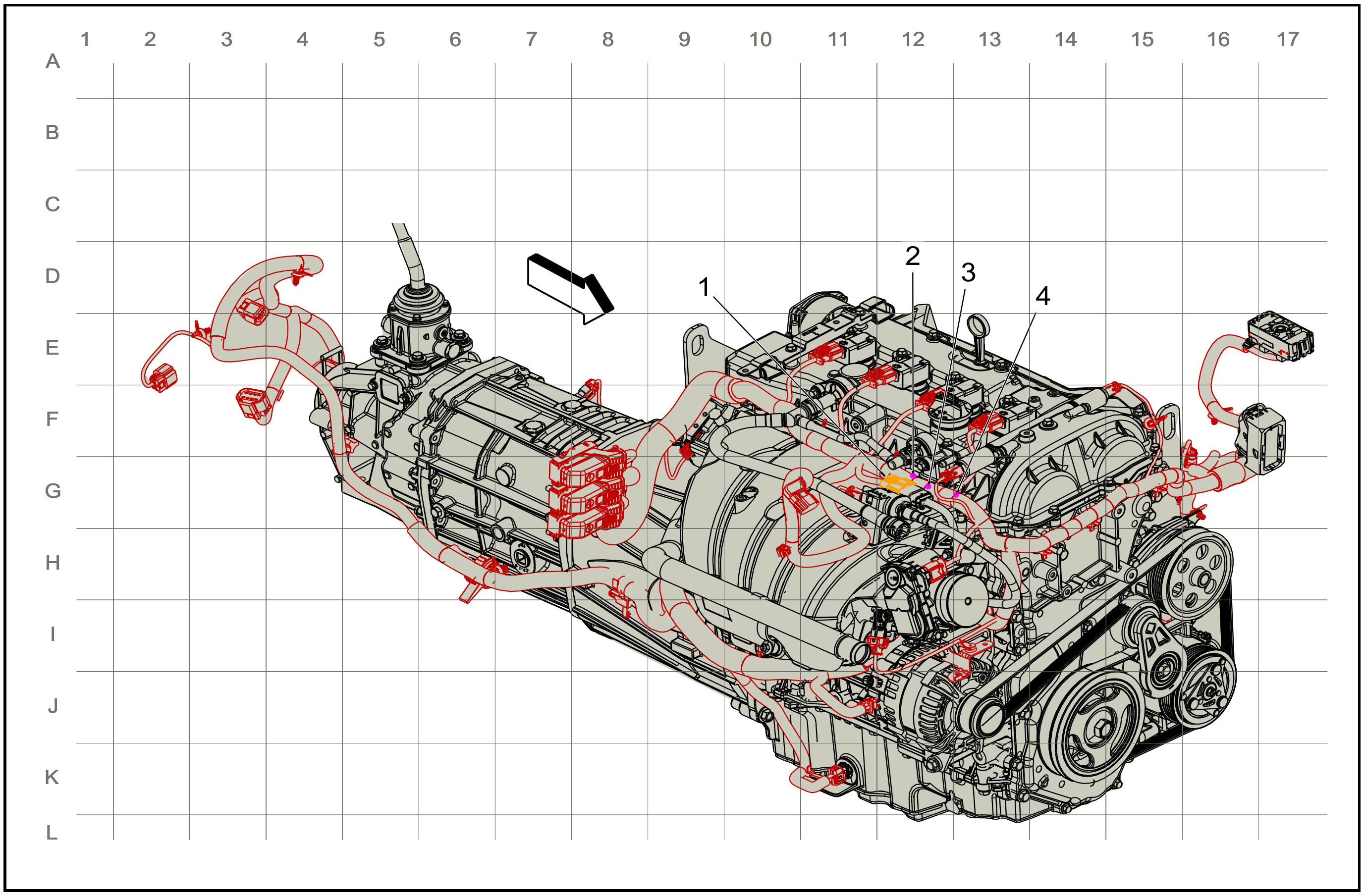
(4) J110 Engine Harness

(5) J108 Engine Harness (LCV)

(6) X101 Engine Harness to Body Harness (48 cavities)

(7) J106 Engine Harness

Harness Routing Views (Engine Harness Routing - Right Front Top (LCV))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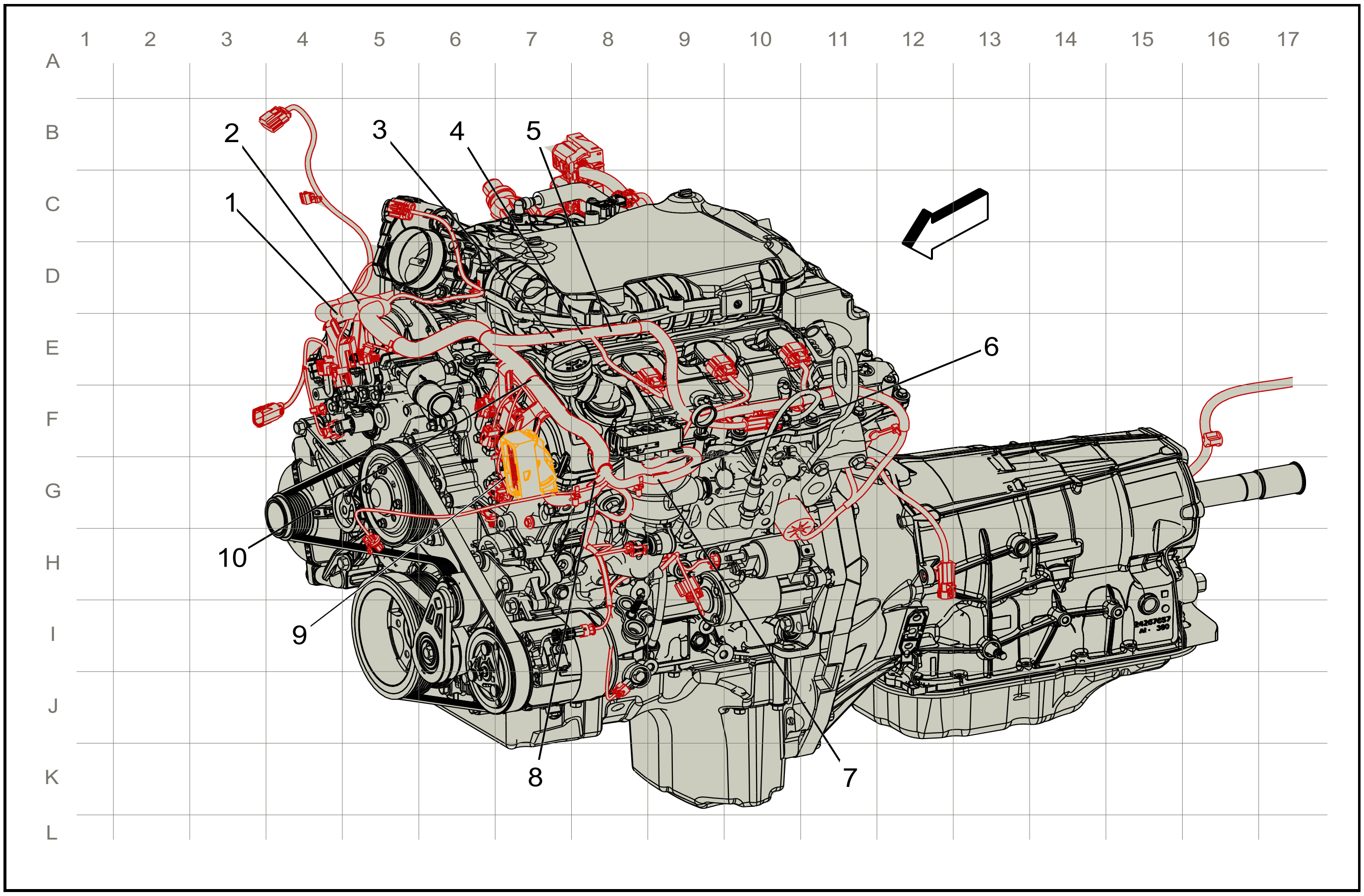
3924807

Items

(1)	X160 Engine Harness to Fuel Injector Harness (12 cavities)
(2)	J112 Engine Harness (LCV)
(3)	J113 Engine Harness
(4)	J114 Engine Harness

Harness Routing Views (Engine Harness Routing - Front (LGZ))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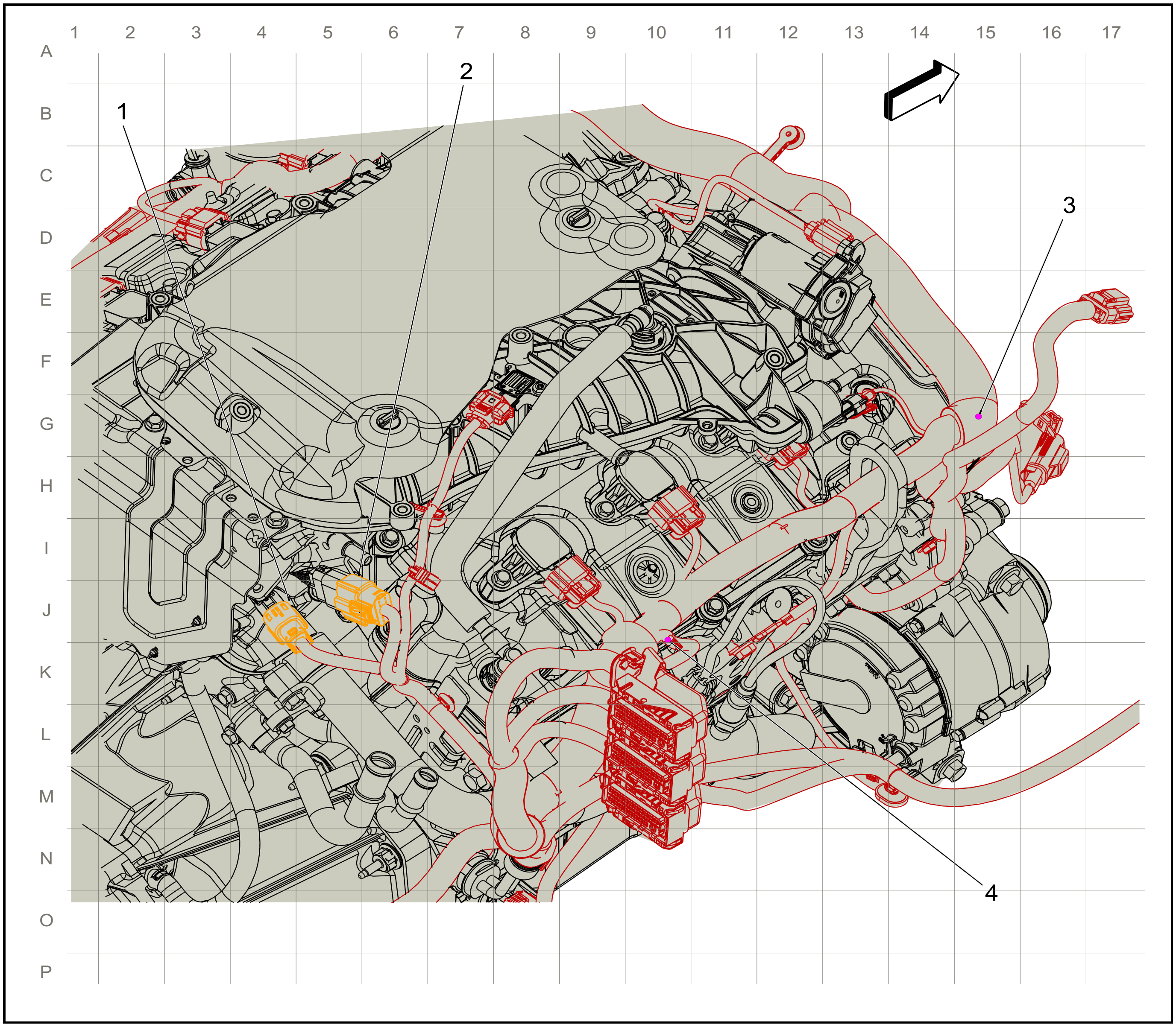
3924810

Items

(1)	J114 Engine Harness
(2)	J110 Engine Harness
(3)	J109 Engine Harness
(4)	J111 Engine Harness
(5)	J116 Engine Harness (LGZ)
(6)	J113 Engine Harness
(7)	J107 Engine Harness
(8)	J106 Engine Harness
(9)	X101 Engine Harness to Body Harness (48 cavities)
(10)	J115 Engine Harness (LGZ)

Harness Routing Views (Engine Harness Routing - Rear (LGZ))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4176064

Items

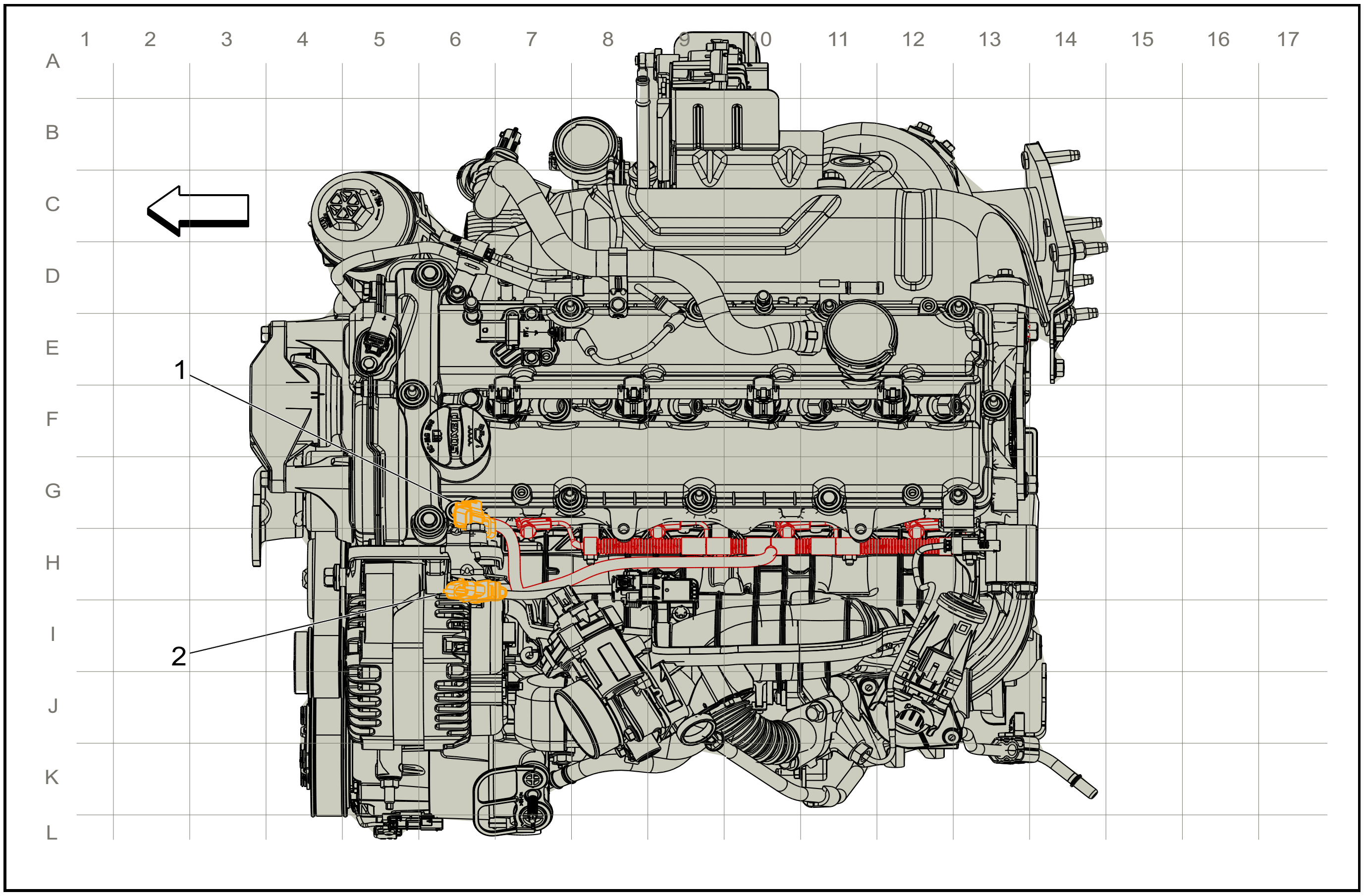
(1) X160 Engine Harness to Fuel Injector Harness (12 cavities)

(2) X161 Engine Harness to Fuel Injector - Even Harness (12 cavities) (LGZ)

(3) J128 Engine Harness

(4) J129 Engine Harness

Harness Routing Views (Engine Harness Routing - Top (LWN))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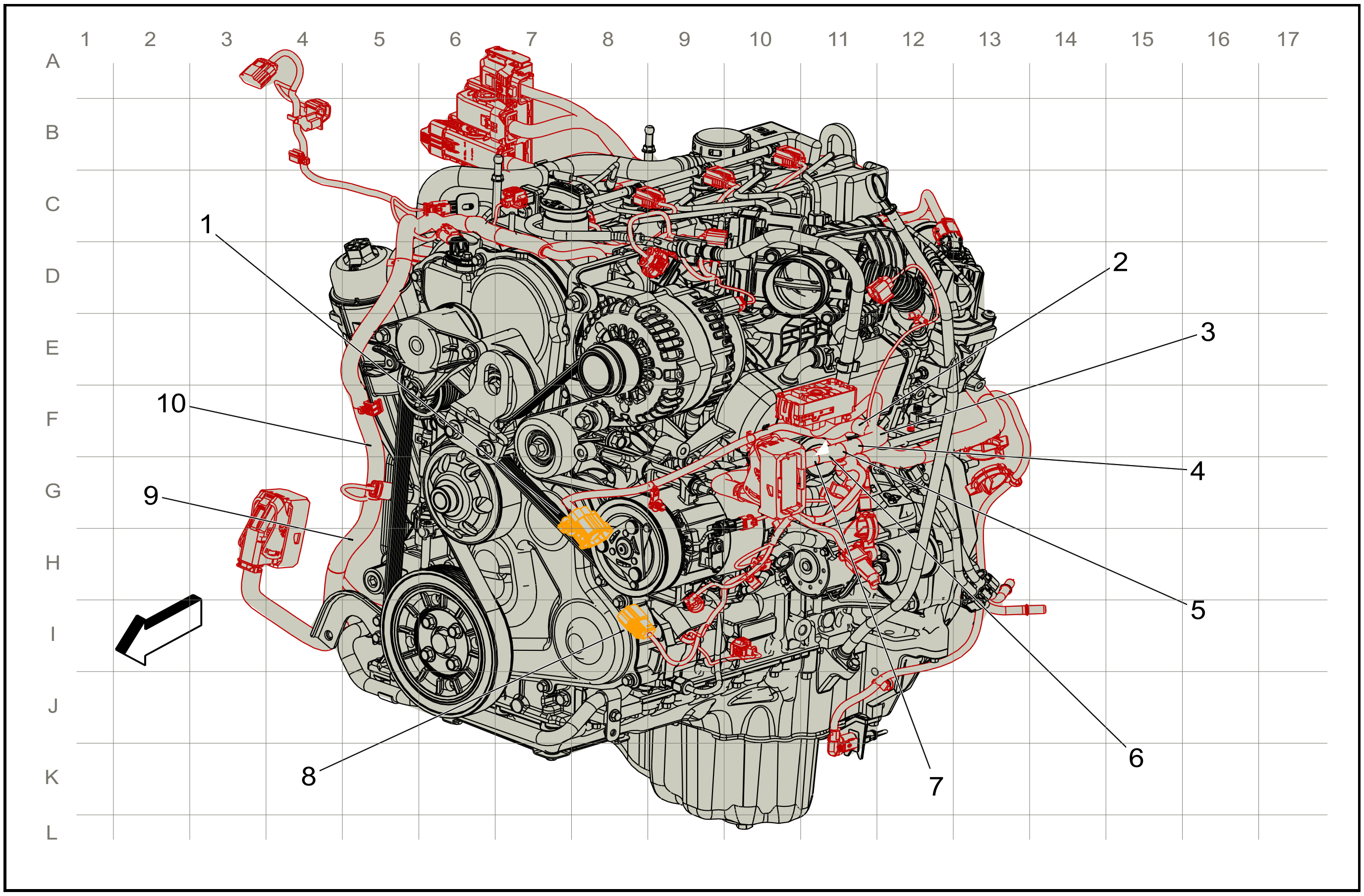
4122371

Items

(1) X111 Engine Harness to Glow Plug Harness (4 cavities) (LWN)

(2) X112 Engine Harness to Intake Manifold Pressure Harness (4 cavities) (LWN)

Harness Routing Views (Engine Harness Routing - Left Front (LWN))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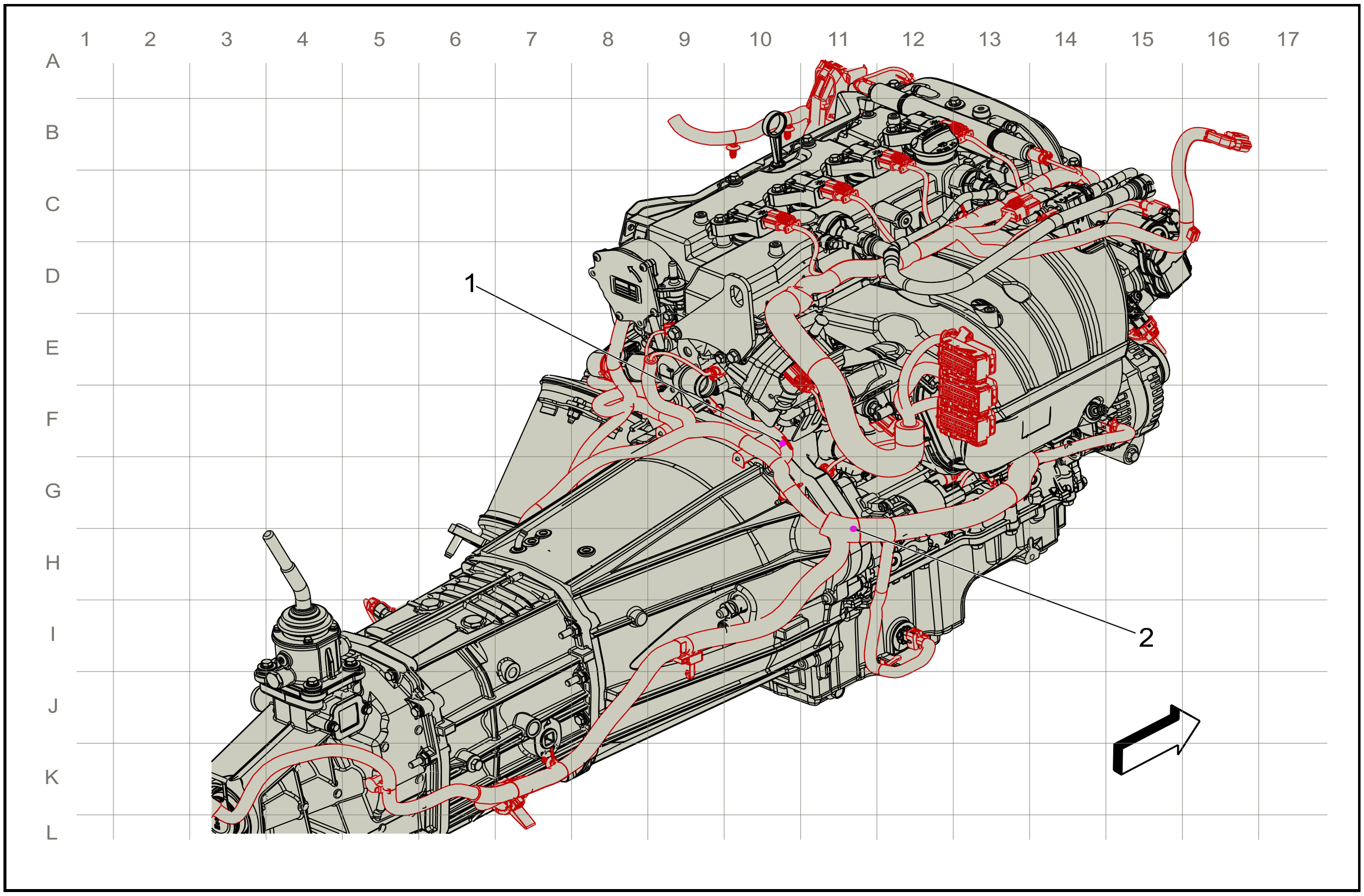
4122374

Items

(1)	X109 Engine Harness to Forward Lamp Harness (4 cavities) (LWN)
(2)	J120 Forward Lamp Harness
(3)	J127 Engine Harness (LWN)
(4)	J126 Engine Harness (LWN)
(5)	J125 Engine Harness (LWN)
(6)	J106 Engine Harness
(7)	J110 Engine Harness
(8)	X108 Engine Harness to Cooling Fan Harness (6 cavities) (LWN)
(9)	J133 Engine Harness (LWN)
(10)	J132 Engine Harness (LWN)

Harness Routing Views (Engine Harness Routing - Right Rear (LCV))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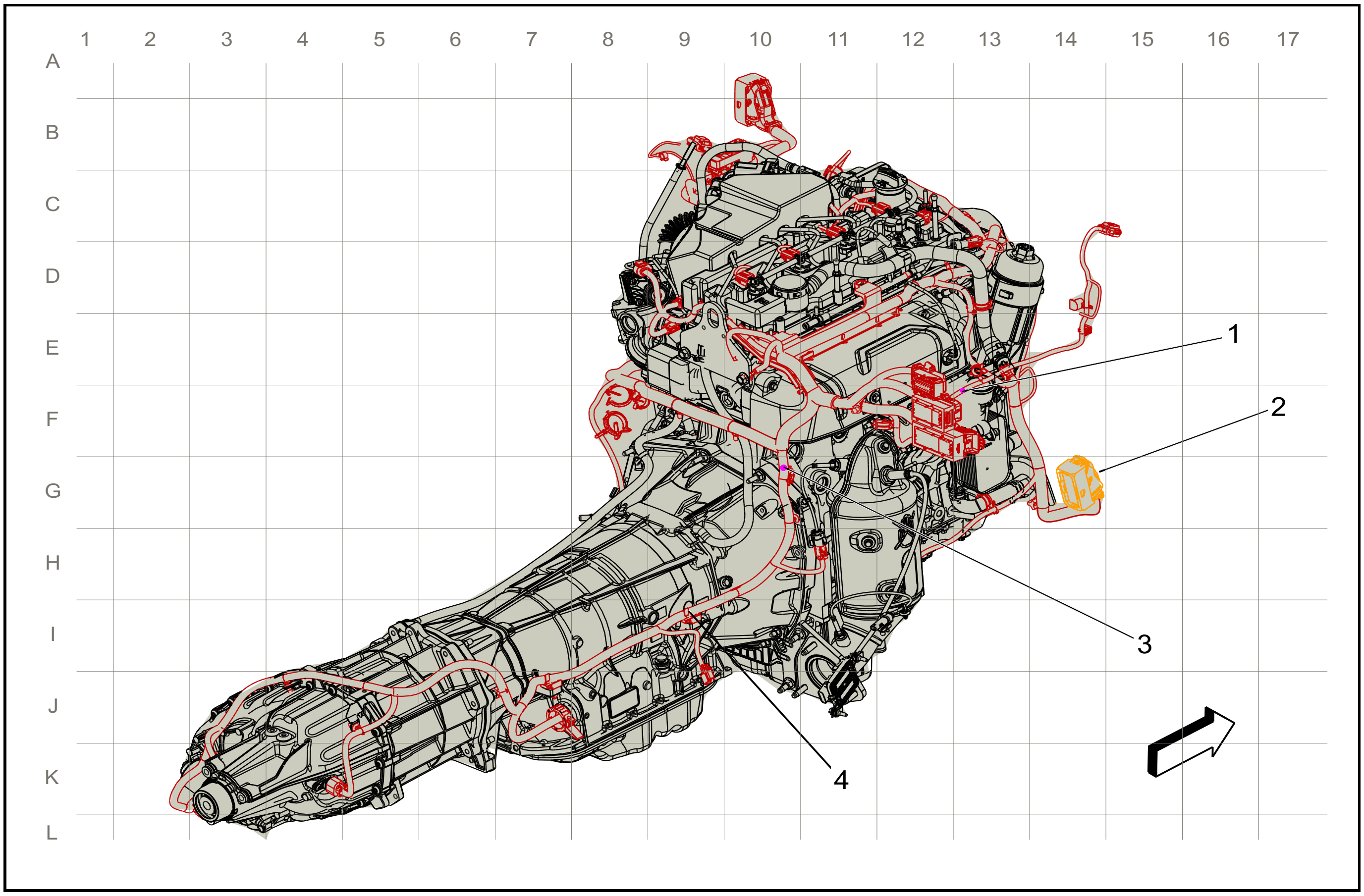
4176071

Items

(1)	J128 Engine Harness
(2)	J129 Engine Harness

Harness Routing Views (Engine Harness Routing - Right Rear (LWN))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4122377

Items

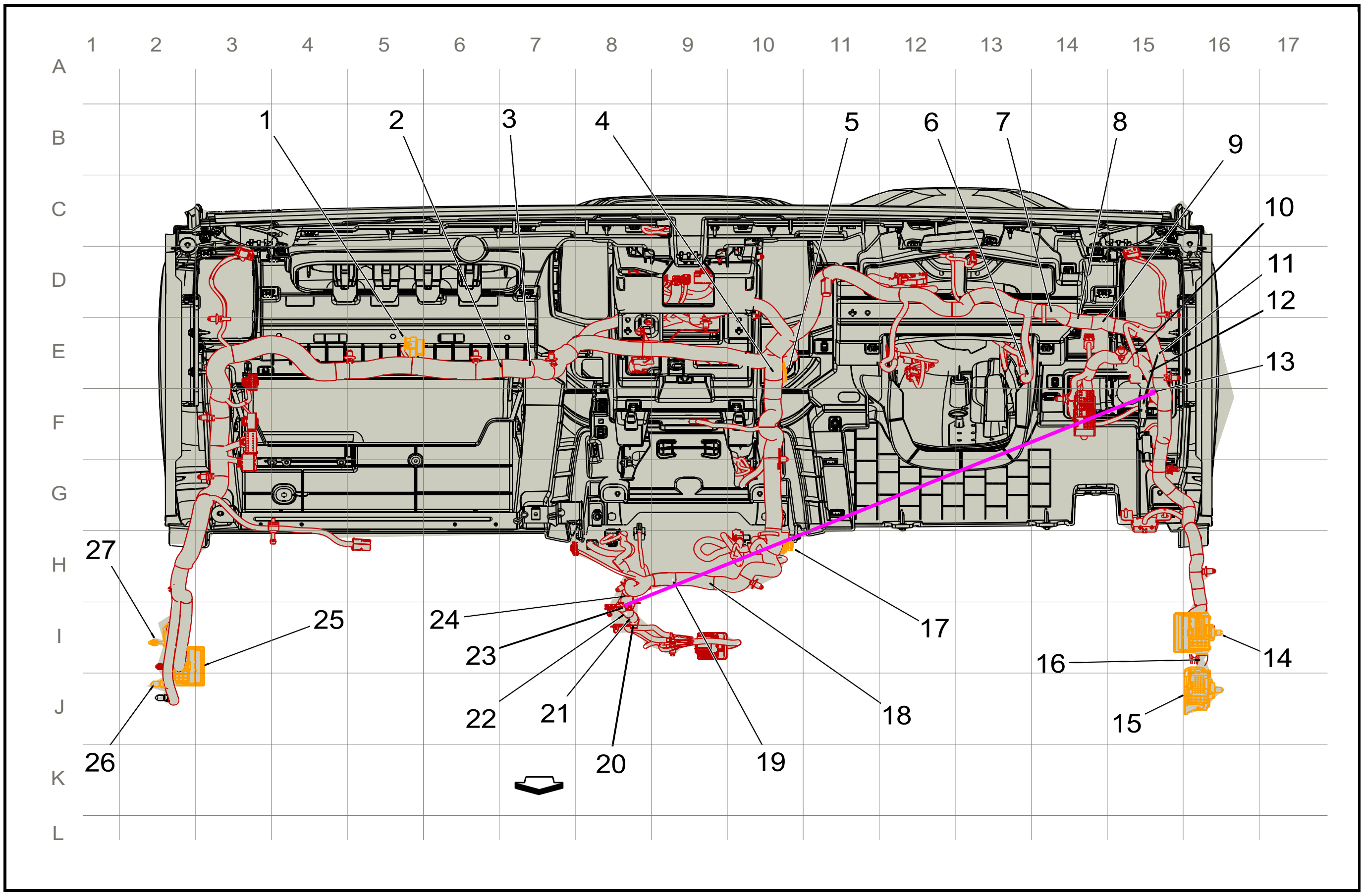
(1) J111 Engine Harness

(2) X107 Engine Harness to Chassis Harness (48 cavities) (LWN)

(3) J131 Engine Harness (LWN)

(4) J109 Engine Harness

Harness Routing Views (Instrument Panel Harness Routing - Rear)

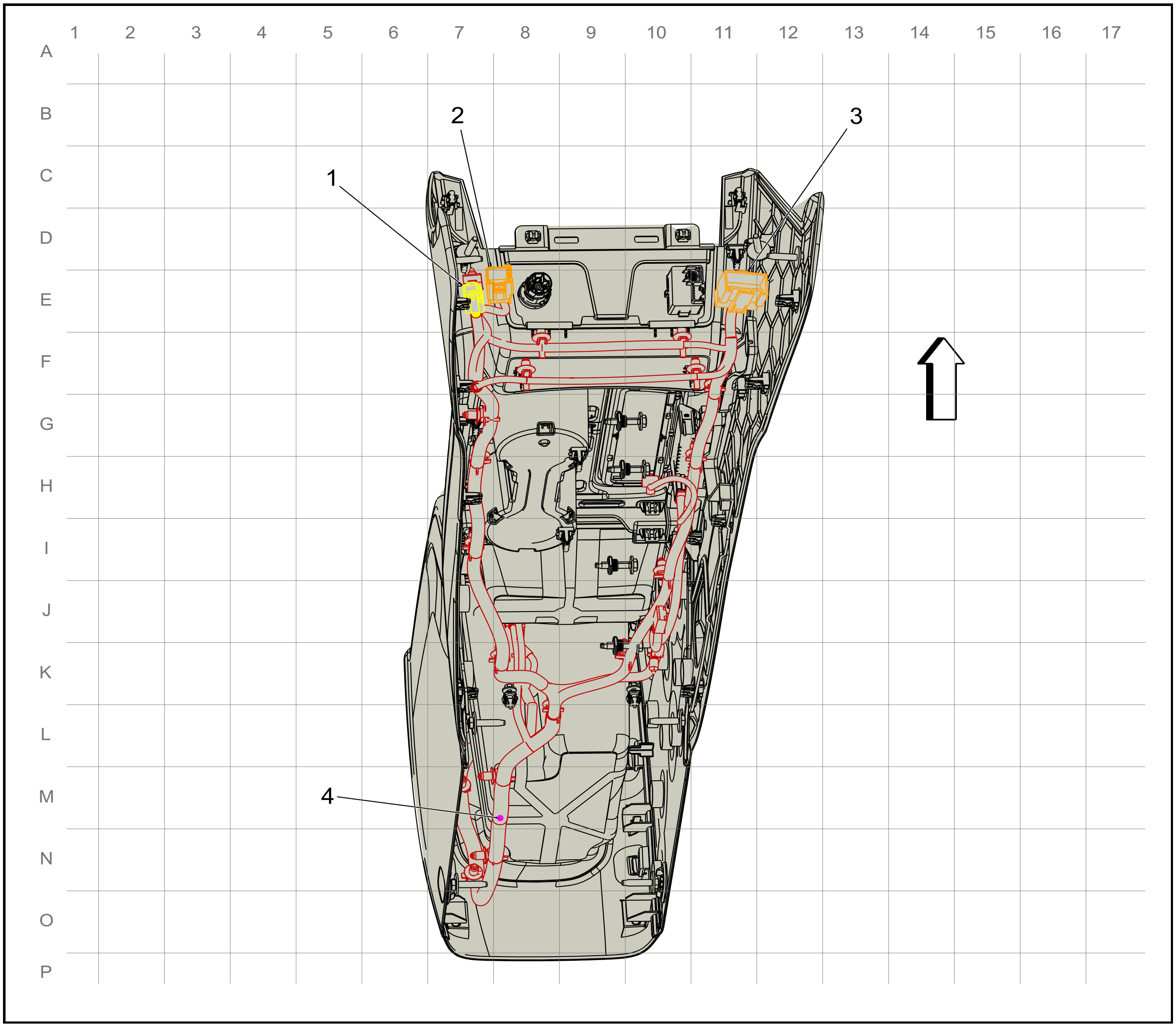


5001625

Items

(1)	X207 Instrument Panel Harness to Passenger Air Bag Extension Harness (6 cavities)
(2)	J229 Instrument Panel Harness (UQ3)
(3)	J230 Instrument Panel Harness (UQ3)
(4)	J253 Instrument Panel Harness (LWN)
(5)	X206 Instrument Panel Harness to HVAC Harness (2 cavities) (C68)
(6)	J221 Instrument Panel Harness
(7)	J219 Instrument Panel Harness (UQ3)
(8)	J218 Instrument Panel Harness (UQ3)
(9)	J220 Instrument Panel Harness
(10)	J254 Instrument Panel Harness
(11)	J239 Instrument Panel Harness
(12)	J217 Instrument Panel Harness (KA1)
(13)	J241 Instrument Panel Harness
(14)	X200 Body Harness to Instrument Panel Harness (48 cavities)
(15)	X202 Body Harness to Instrument Panel Harness (44 cavities)
(16)	J203 Body Harness
(17)	X305 Instrument Panel Harness to Floor Console Harness (14 cavities)
(18)	J223 Instrument Panel Harness
(19)	J222 Instrument Panel Harness (IO5/IO6)
(20)	J228 Instrument Panel Harness
(21)	J225 Instrument Panel Harness
(22)	J227 Instrument Panel Harness
(23)	J226 Instrument Panel harness (IO5/IO6)
(24)	J224 Instrument Panel Harness
(25)	X203 Body Harness to Instrument Panel Harness (48 cavities)
(26)	X219 Instrument Panel Harness to Body Harness (Except U2M)
(27)	X218 Instrument Panel Harness to Body Harness (U2M)

Harness Routing Views (Center Console Harness Routing)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5001640

Items

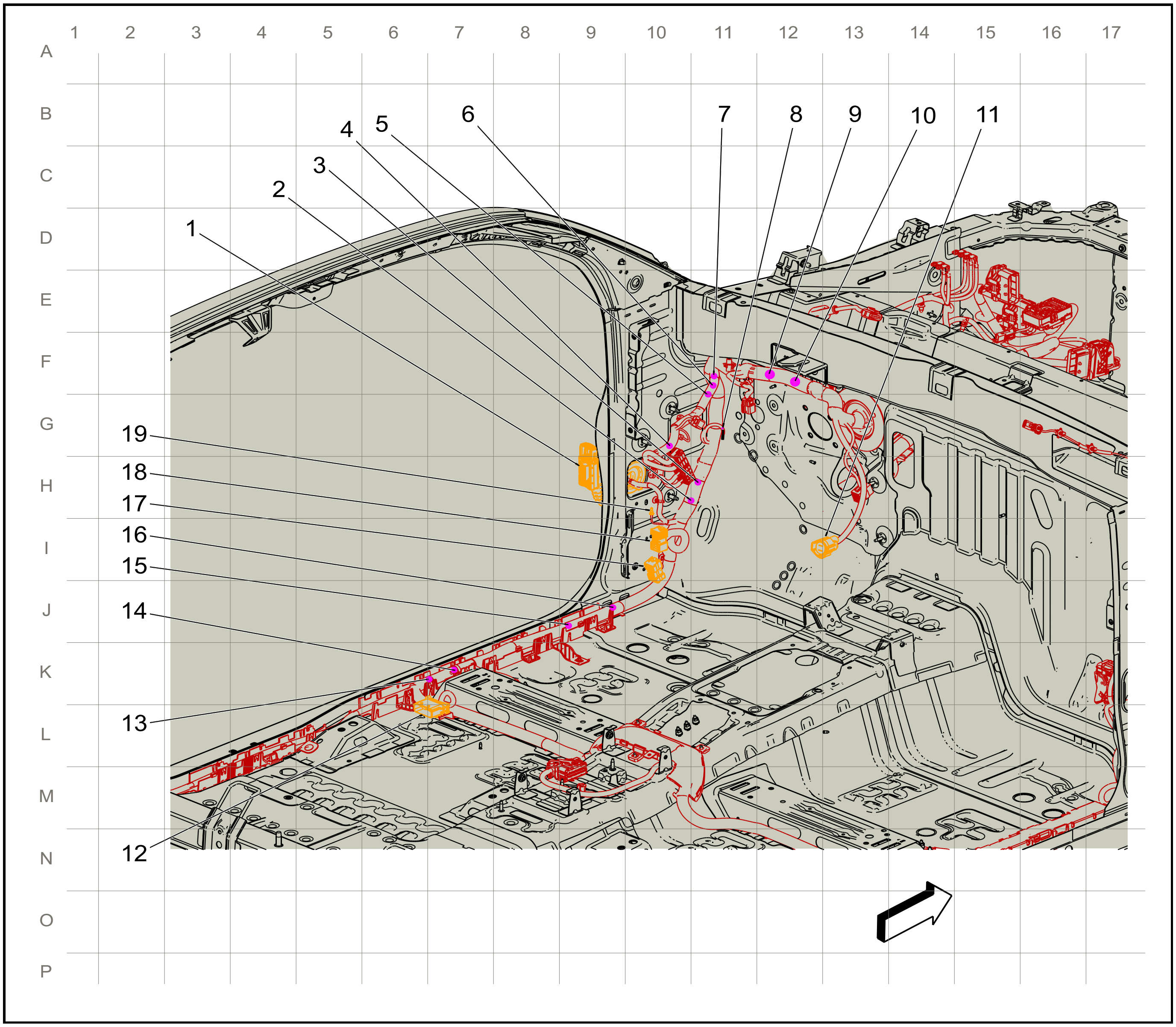
(1) X302 Floor Console Harness to Instrument Panel Harness

(2) X306 Instrument Panel Harness to Floor Console Harness (8 cavities) (MYB)

(3) X305 Instrument Panel Harness to Floor Console Harness (14 cavities)

(4) J305 Floor Console Harness

Harness Routing Views (Body Harness Routing - Left Front of Passenger Compartment (Extended Cab))

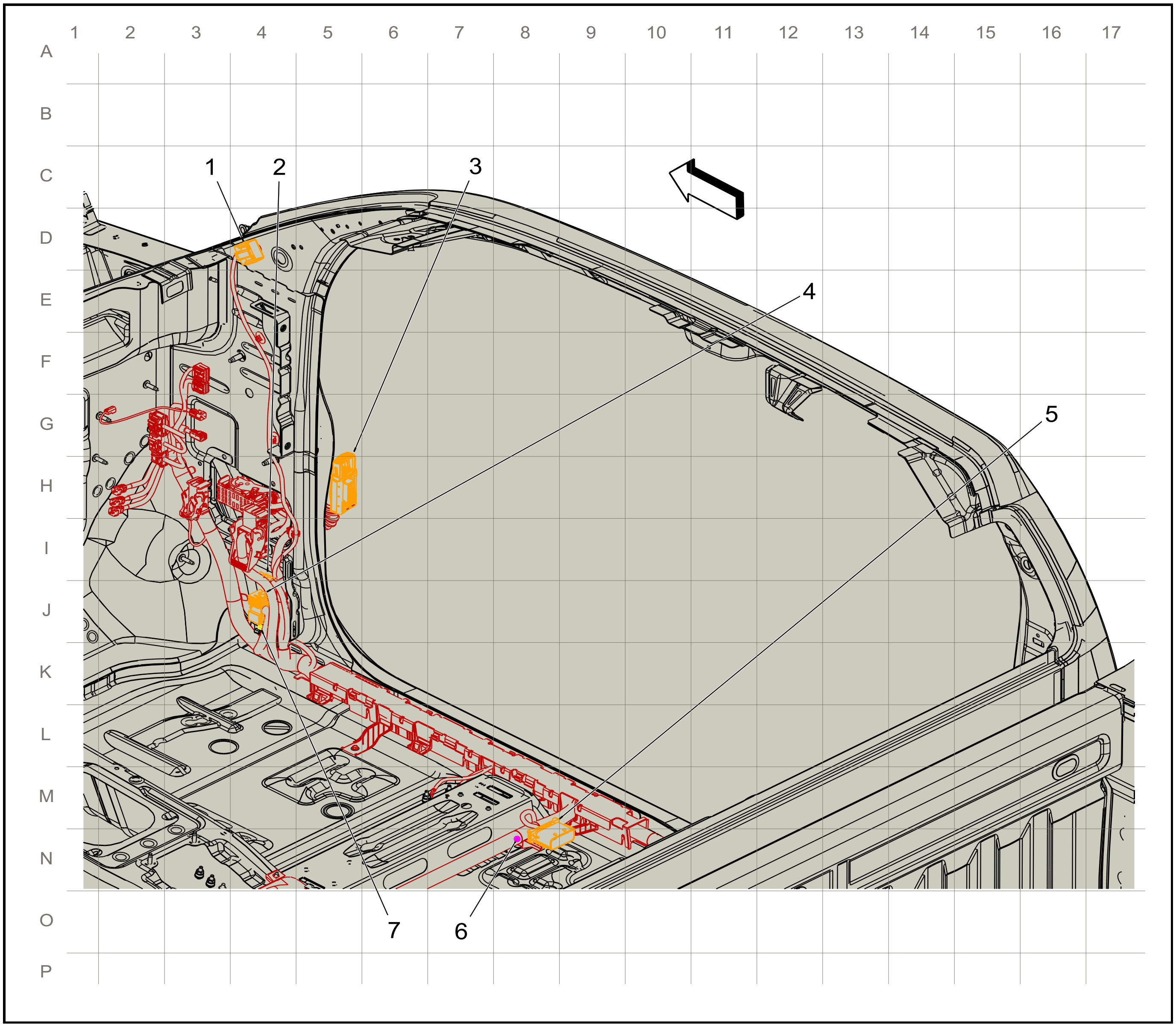


5001659

Items

(1)	X500 Body Harness to Driver Door Harness (34 cavities)
(2)	J207 Body Harness
(3)	J208 Body Harness
(4)	J204 Body Harness
(5)	J202 Body Harness
(6)	J205 Body Harness
(7)	J201 Body Harness
(8)	J254 Instrument Panel Harness
(9)	J235 Body Harness
(10)	J200 Body Harness
(11)	X204 Body Harness to HVAC Harness (LWN)
(12)	X310 Driver Seat Cushion Harness to Body Harness (23 cavities)
(13)	J240 Body Harness (KU1/KU3)
(14)	J302 Body Harness (Extended Cab)
(15)	J209 Body Harness
(16)	J206 Body Harness
(17)	X202 Body Harness to Instrument Panel Harness (44 cavities)
(18)	X200 Body Harness to Instrument Panel Harness (48 cavities)
(19)	X208 Instrument Panel Harness to Body Harness (UVB)

Harness Routing Views (Body Harness Routing - Left Rear of Passenger Compartment (Extended Cab))

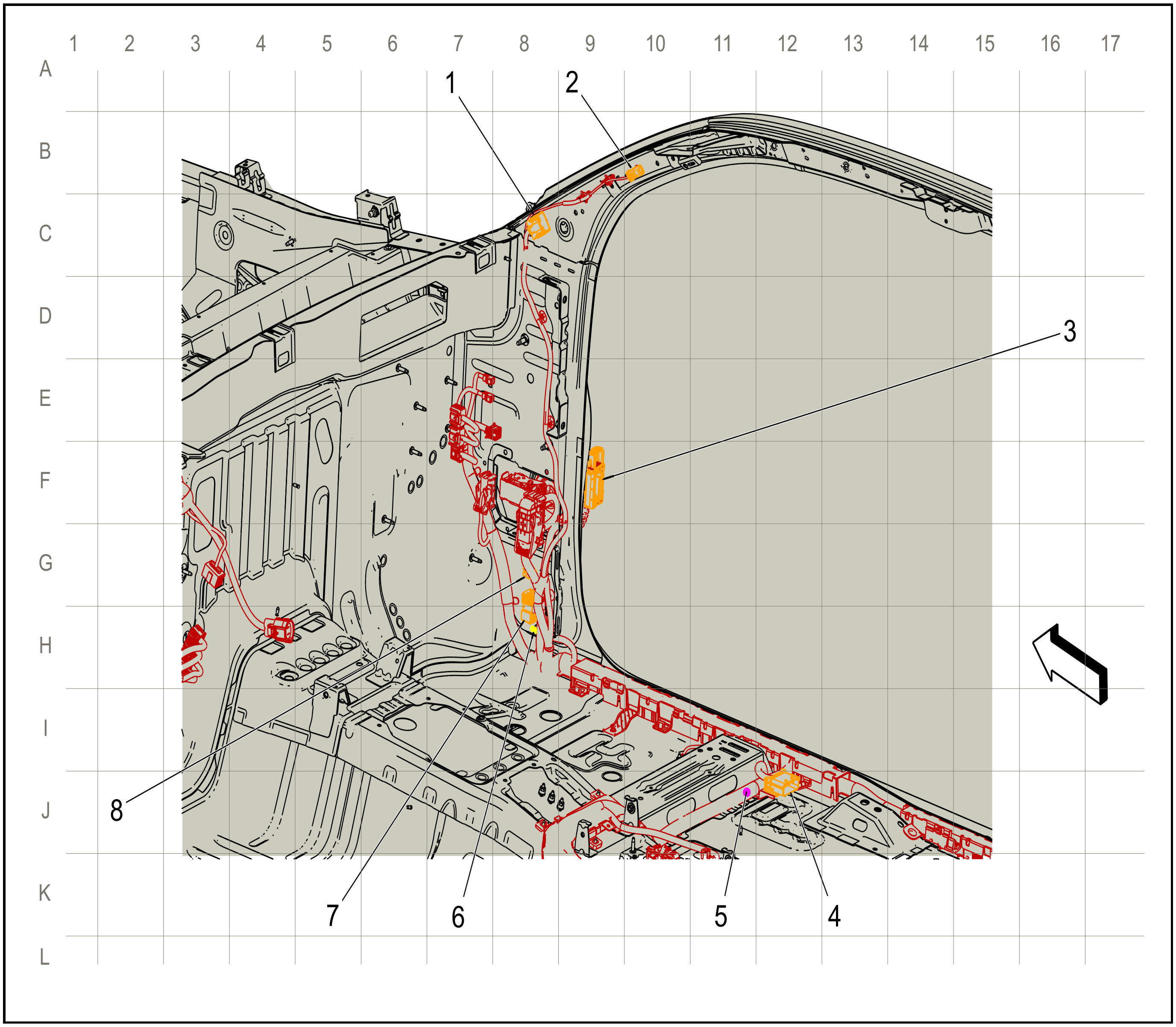


5001728

Items

(1)	X300 Headliner Harness to Body Harness (16 cavities)
(2)	X218 Instrument Panel Harness to Body Harness (U2M)
(3)	X600 Body Harness to Passenger Door Harness (34 cavities)
(4)	X203 Body Harness to Instrument Panel Harness (48 cavities)
(5)	X320 Passenger Seat Harness to Body Harness (23 cavities)
(6)	J301 Body Harness
(7)	X219 Instrument Panel Harness to Body Harness (Except U2M)

Harness Routing Views (Body Harness Routing - Right Front of Passenger Compartment (Extended Cab))

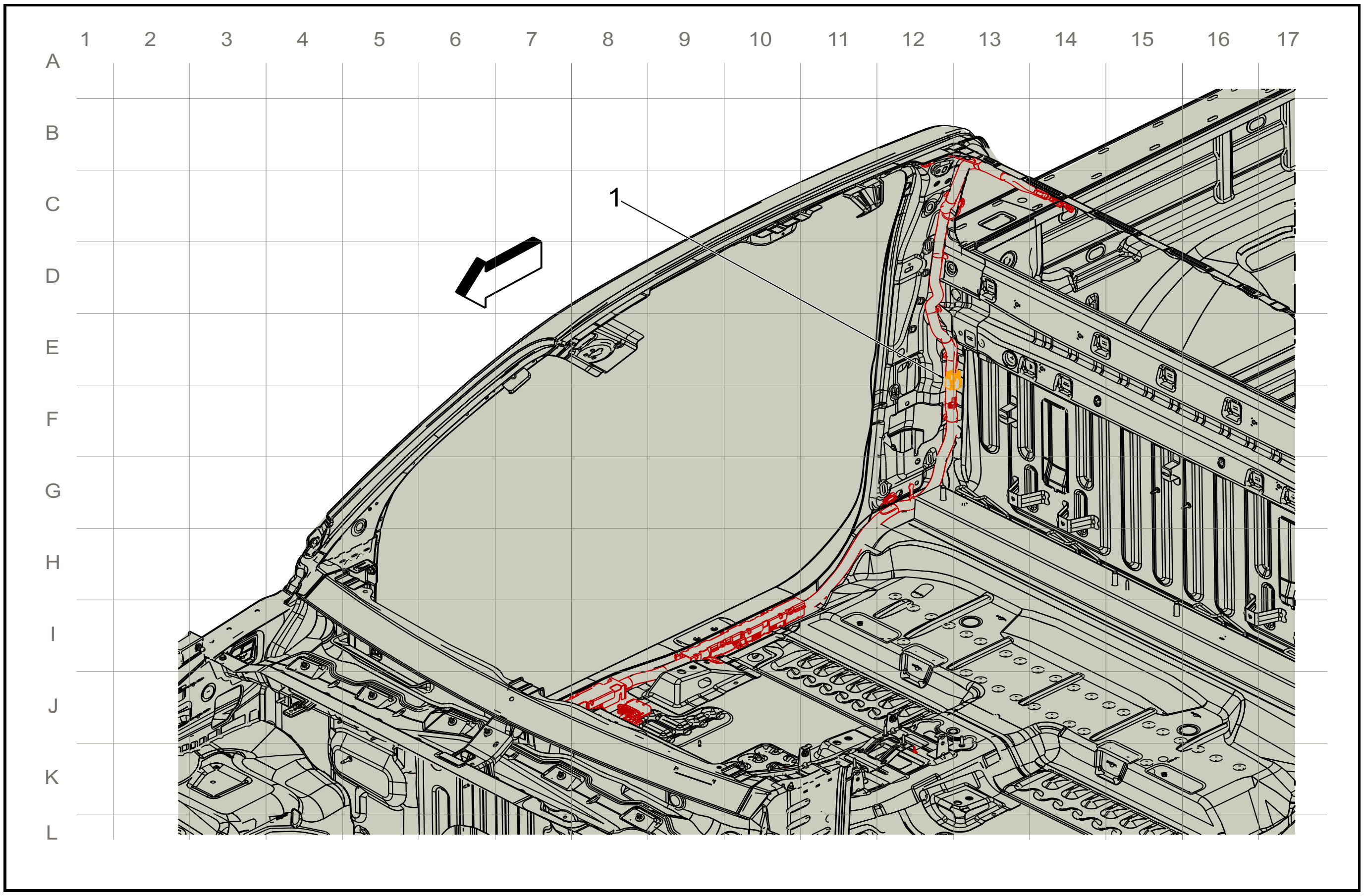


5035014

Items

(1)	X307 Headliner Harness to Body Harness
(2)	X300 Headliner Harness to Body Harness (16 cavities)
(3)	X600 Body Harness to Passenger Door Harness (34 cavities)
(4)	X320 Passenger Seat Harness to Body Harness (23 cavities)
(5)	X301 Body Harness to Headliner Harness (22 cavities)
(6)	X219 Instrument Panel Harness to Body Harness (Except U2M)
(7)	X203 Body Harness to Instrument Panel Harness (48 cavities)
(8)	X218 Instrument Panel Harness to Body Harness (U2M)

Harness Routing Views (Body Harness Routing - Right Rear of Passenger Compartment (Extended Cab))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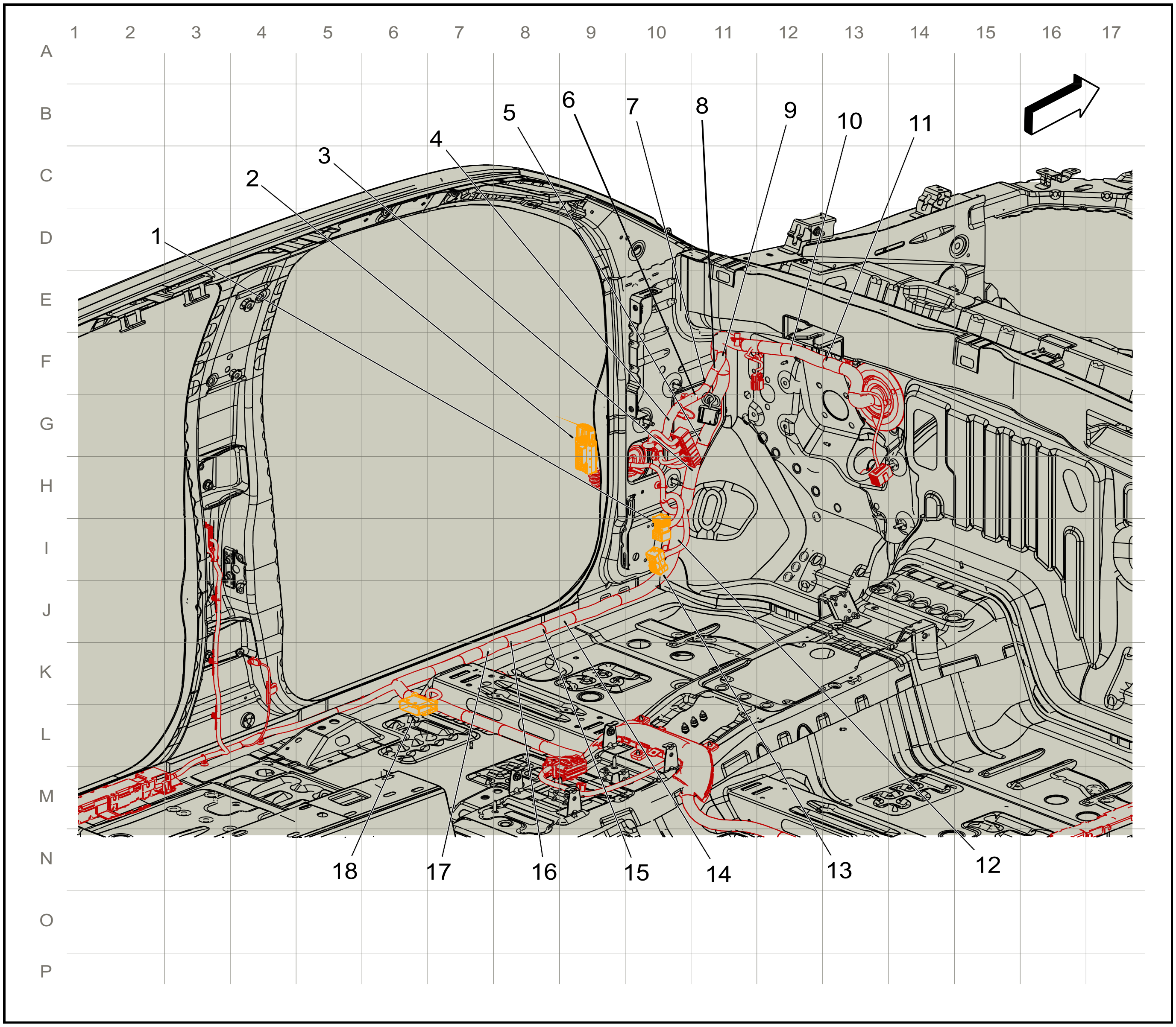
3924933

Items

(1) X800 Right Rear Door Harness to Body Harness (20 cavities)

Harness Routing Views (Body Harness Routing - Left Front of Passenger Compartment (Crew Cab))

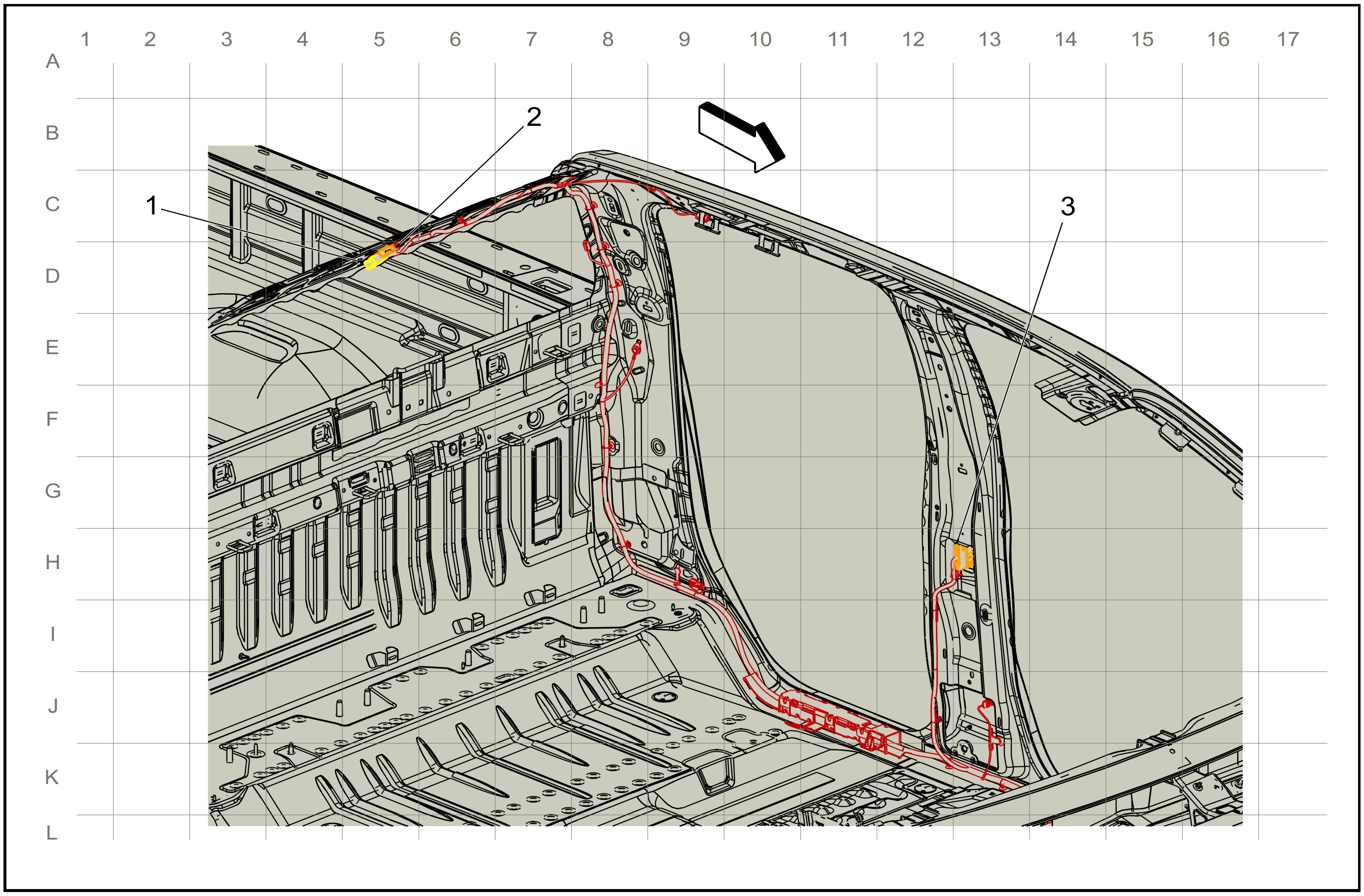


5081378

Items

(1)	X200 Body Harness to Instrument Panel Harness (48 cavities)
(2)	X500 Body Harness to Driver Door Harness (34 cavities)
(3)	J207 Body Harness
(4)	J204 Body Harness
(5)	J208 Body Harness
(6)	J242 Instrument Panel Harness
(7)	J202 Body Harness
(8)	J205 Body Harness
(9)	J201 Body Harness
(10)	J235 Body Harness
(11)	J200 Body Harness
(12)	J206 Body Harness
(13)	X202 Body Harness to Instrument Panel Harness (44 cavities)
(14)	J212 Body Harness (Crew Cab)
(15)	J211 Body Harness (Crew Cab)
(16)	J210 Body Harness (Crew Cab)
(17)	J209 Body Harness
(18)	X310 Driver Seat Cushion Harness to Body Harness (23 cavities)

Harness Routing Views (Body Harness Routing - Left Rear of Passenger Compartment (Crew Cab))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3925876

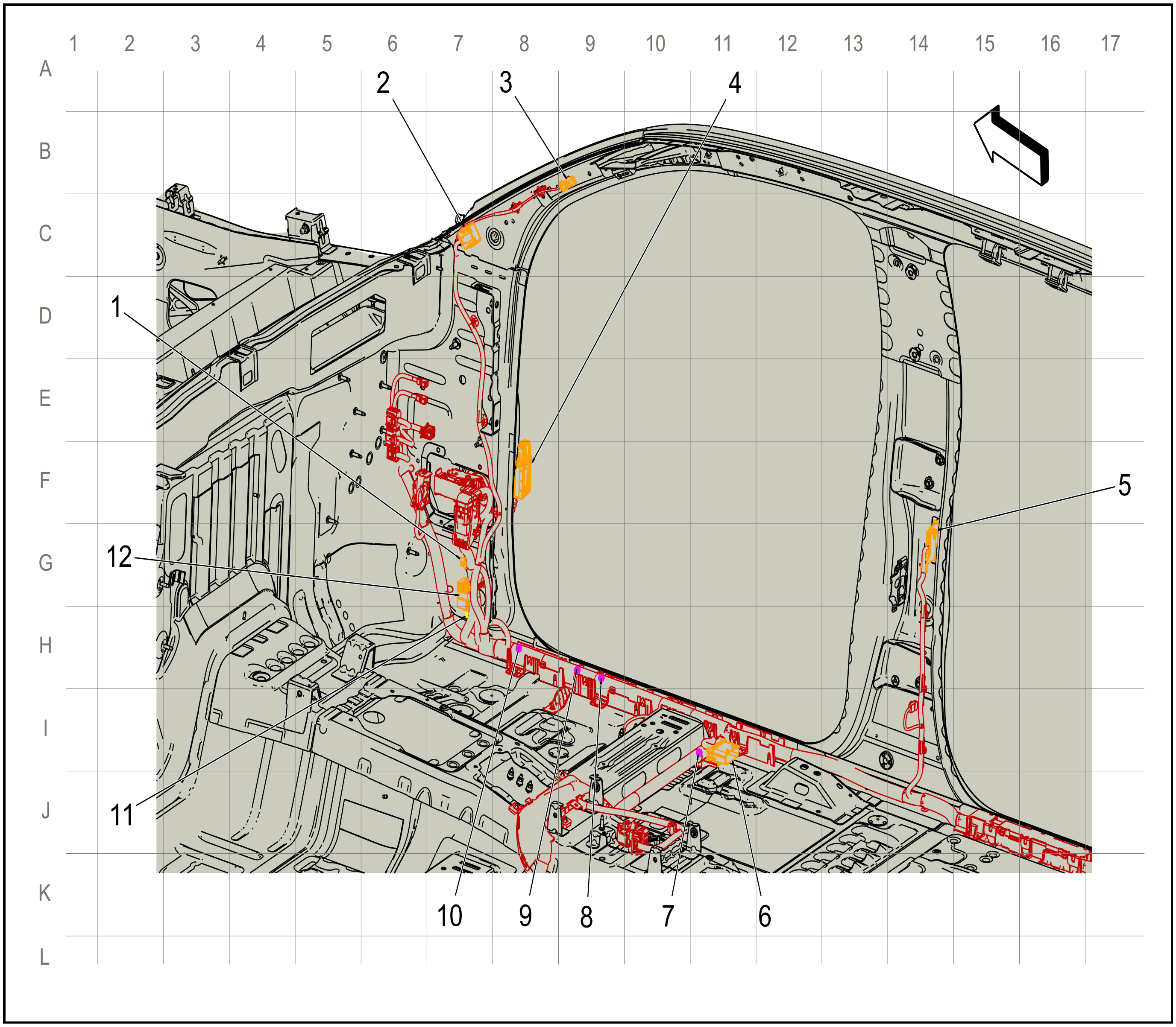
Items

(1) X301 Body Harness to Headliner Harness (22 cavities)

(2) X303 Body Harness to Center High Mounted Stop Lamp Harness (3 cavities)

(3) X700 Left Rear Door Harness to Body Harness (12 cavities)

Harness Routing Views (Body Harness Routing - Right Front of Passenger Compartment (Crew Cab))

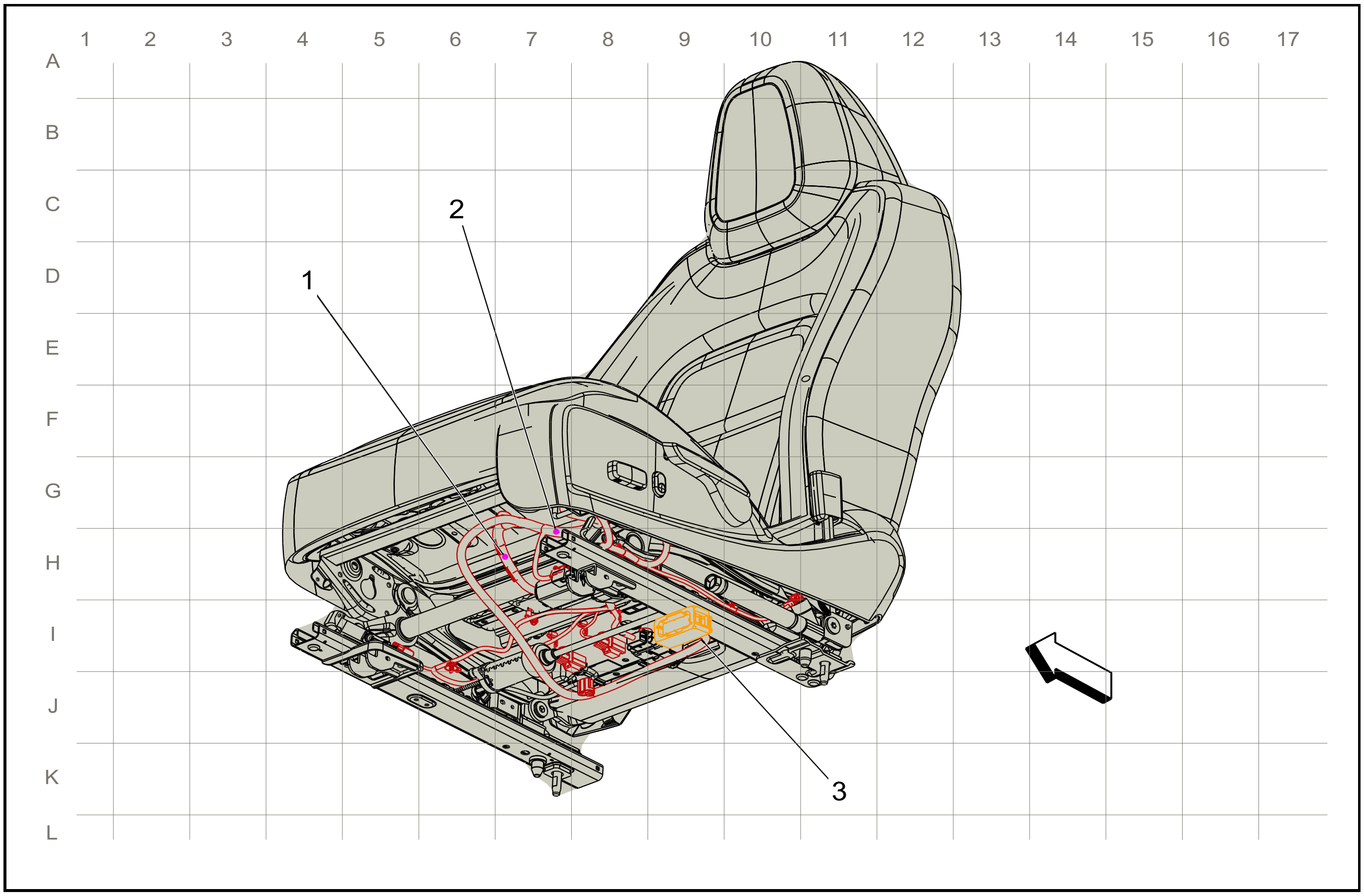


5035015

Items

(1)	X300 Headliner Harness to Body Harness (16 cavities)
(2)	X218 Instrument Panel Harness to Body Harness (U2M)
(3)	X600 Body Harness to Passenger Door Harness (34 cavities)
(4)	X203 Body Harness to Instrument Panel Harness (48 cavities)
(5)	J213 Body Harness (Crew Cab)
(6)	X800 Right Rear Door Harness to Body Harness (20 cavities)
(7)	X320 Passenger Seat Harness to Body Harness (23 cavities)
(8)	J301 Body Harness
(9)	J300 Body Harness (Crew Cab)
(10)	X219 Instrument Panel Harness to Body Harness (Except U2M)

Harness Routing Views (Driver Seat Harness Routing)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4282662

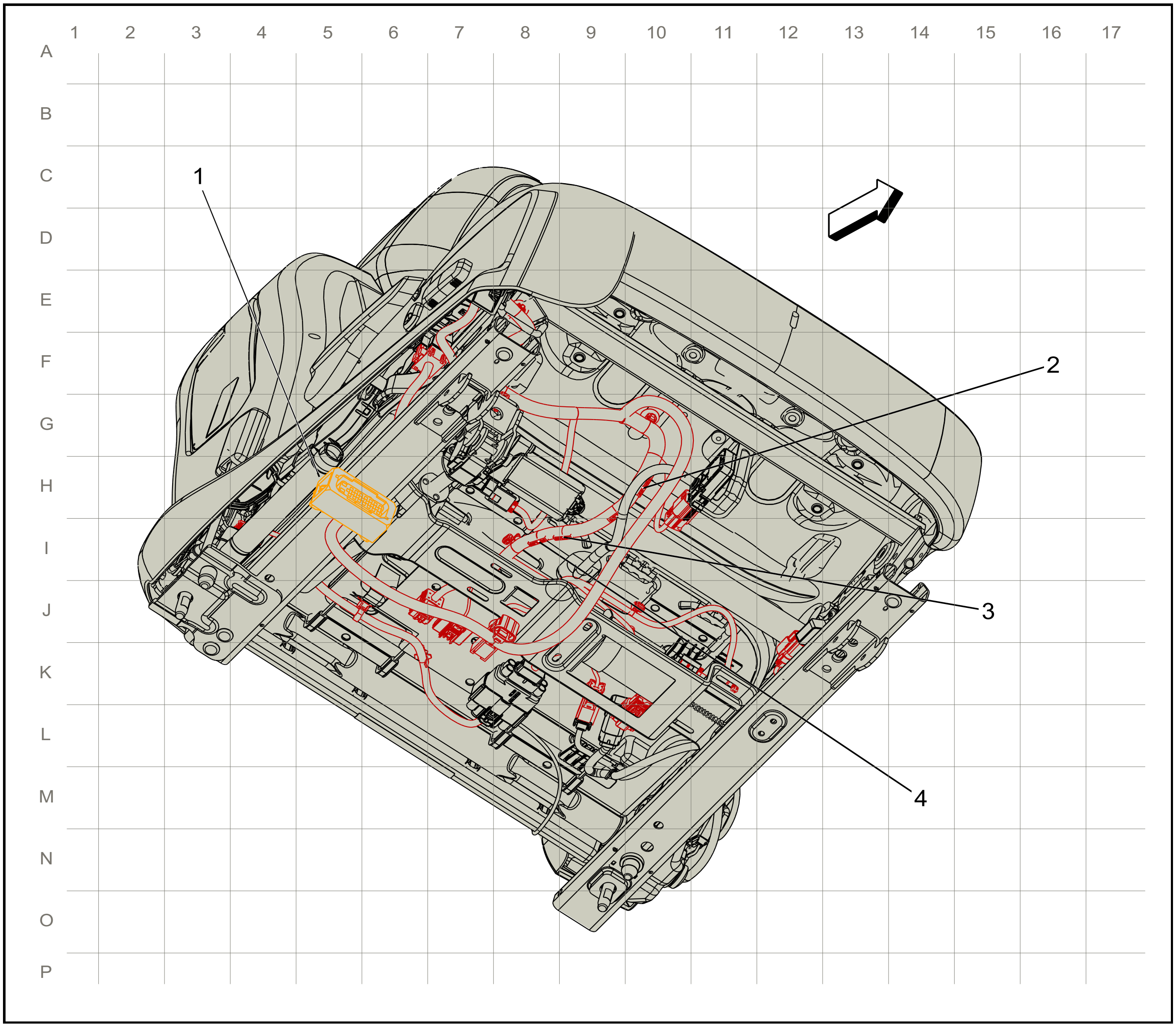
Items

(1) J311 Driver Seat Cushion Harness (AH6/AL9/KA1)

(2) J309 Driver Seat Cushion Harness (AL9)

(3) X310 Driver Seat Cushion Harness to Body Harness (23 cavities)

Harness Routing Views (Passenger Seat Harness Routing)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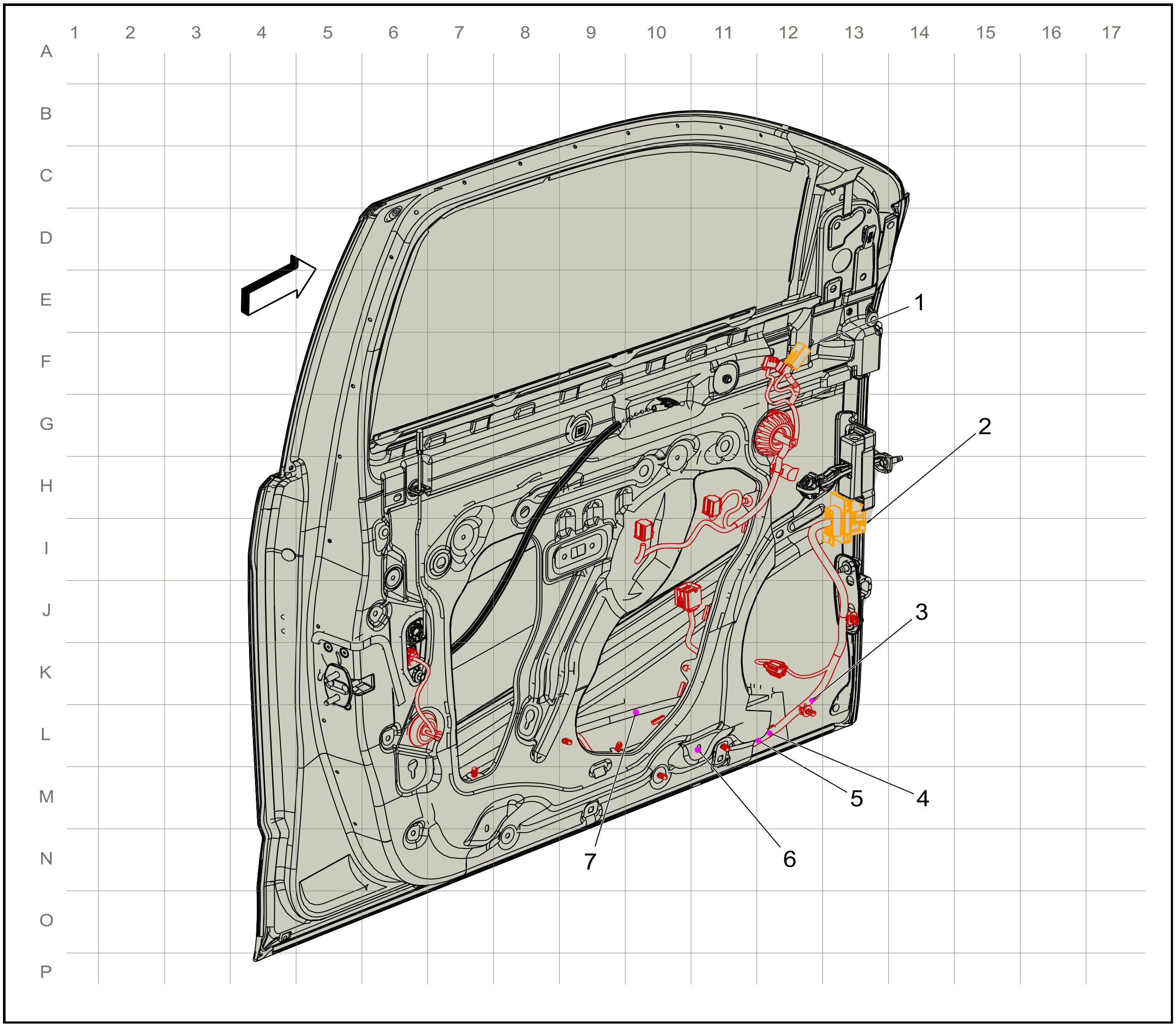
4282664

Items

(1)	X320 Passenger Seat Harness to Body Harness (23 cavities)
(2)	J310 Passenger Seat Cushion Harness (AT9)
(3)	J313 Passenger Seat Cushion Harness
(4)	J312 Passenger Seat Cushion Harness (AAQ/AT9/KA1)

Harness Routing Views (Driver Door Harness Routing)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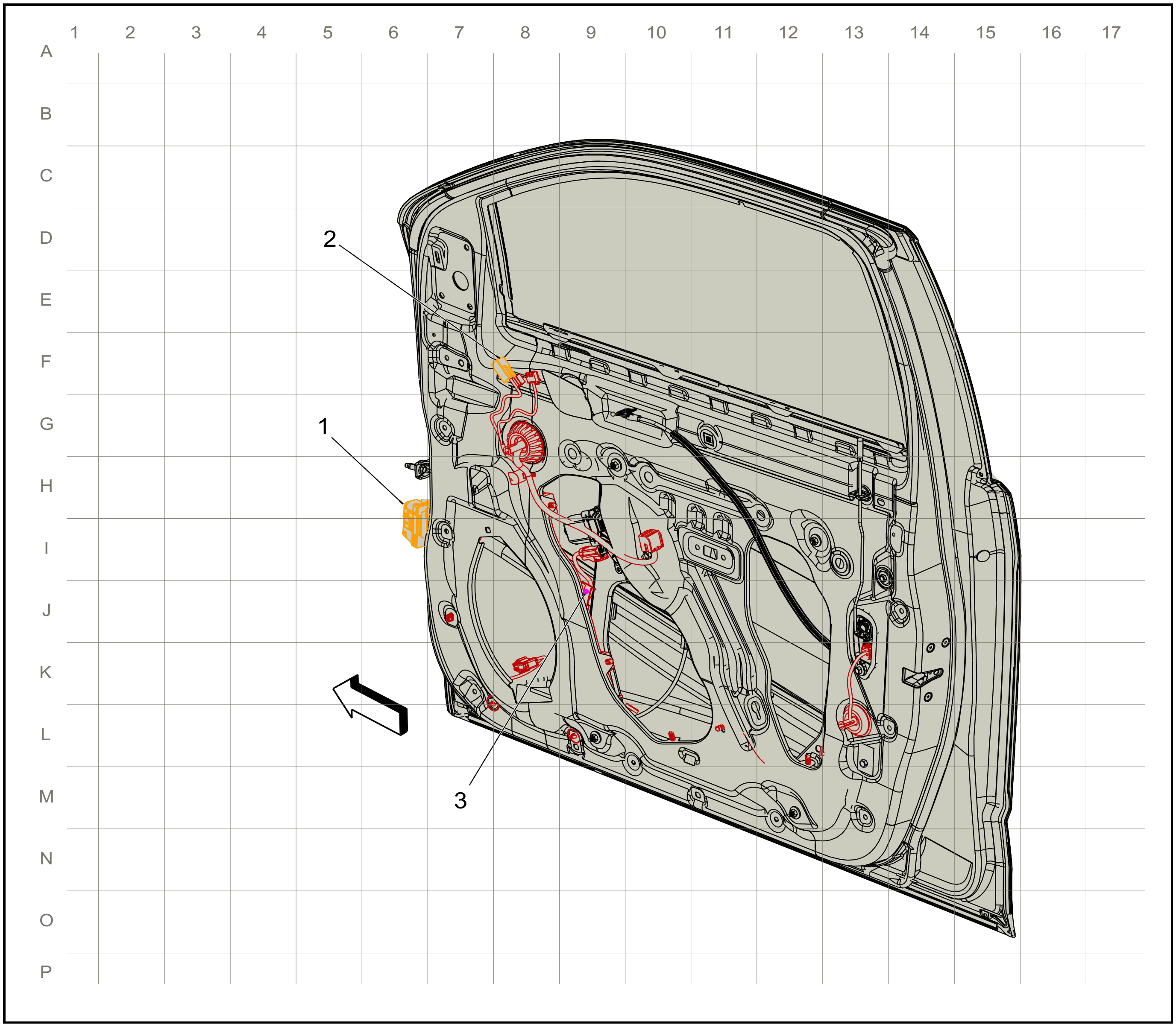
3925924

Items

(1)	X510 Outside Rearview Mirror Harness to Driver Door Harness (10 cavities)
(2)	X500 Body Harness to Driver Door Harness (34 cavities)
(3)	J504 Driver Door Harness
(4)	J505 Driver Door Harness
(5)	J503 Driver Door Harness
(6)	J501 Driver Door Harness
(7)	J502 Driver Door Harness

Harness Routing Views (Passenger Door Harness Routing)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3926740

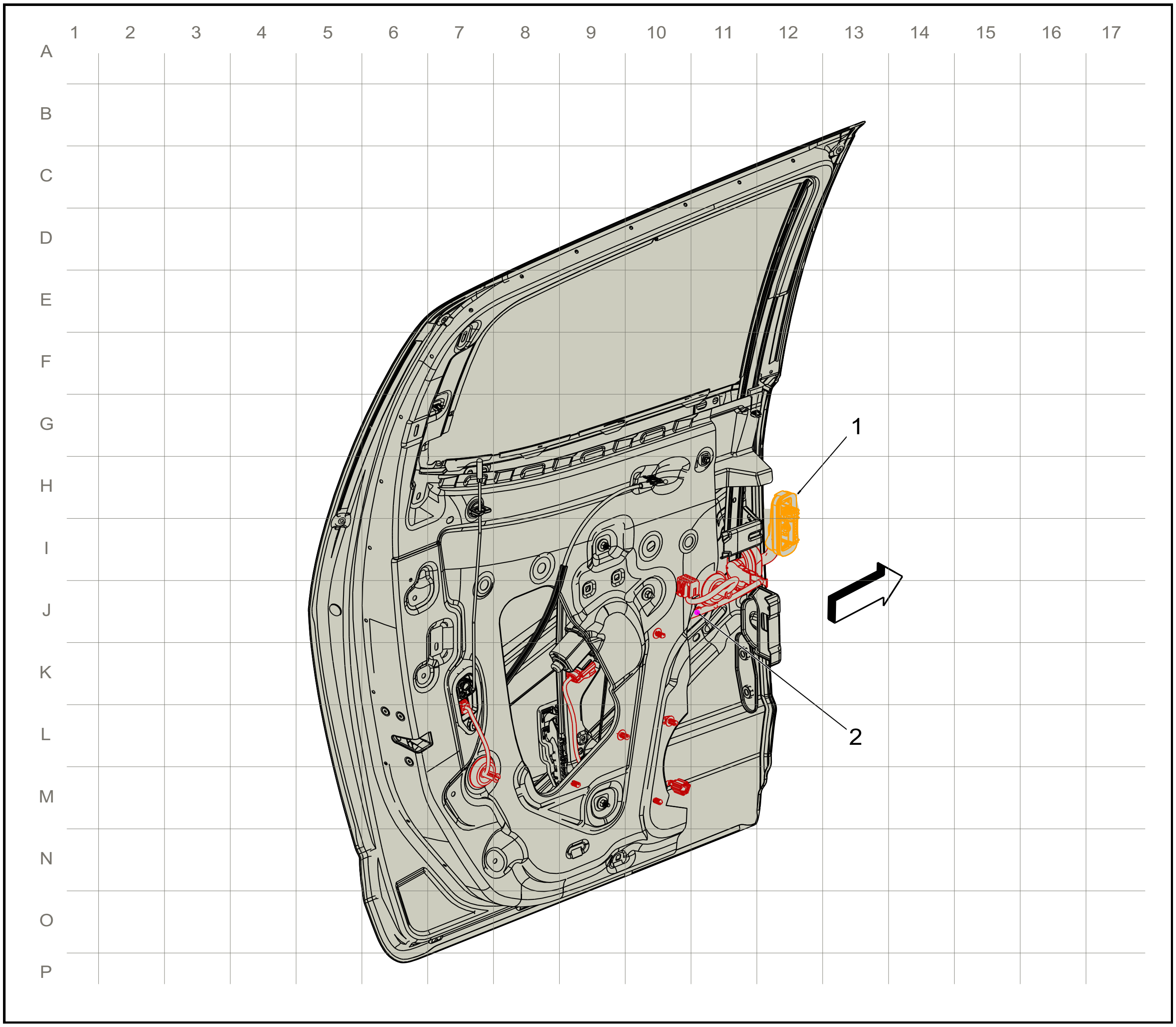
Items

(1) X600 Body Harness to Passenger Door Harness (34 cavities)

(2) X610 Outside Rearview Mirror Harness to Passenger Door Harness (10 cavities)

(3) J600 Passenger Door Harness

Harness Routing Views (Left Rear Door Harness Routing (Crew Cab))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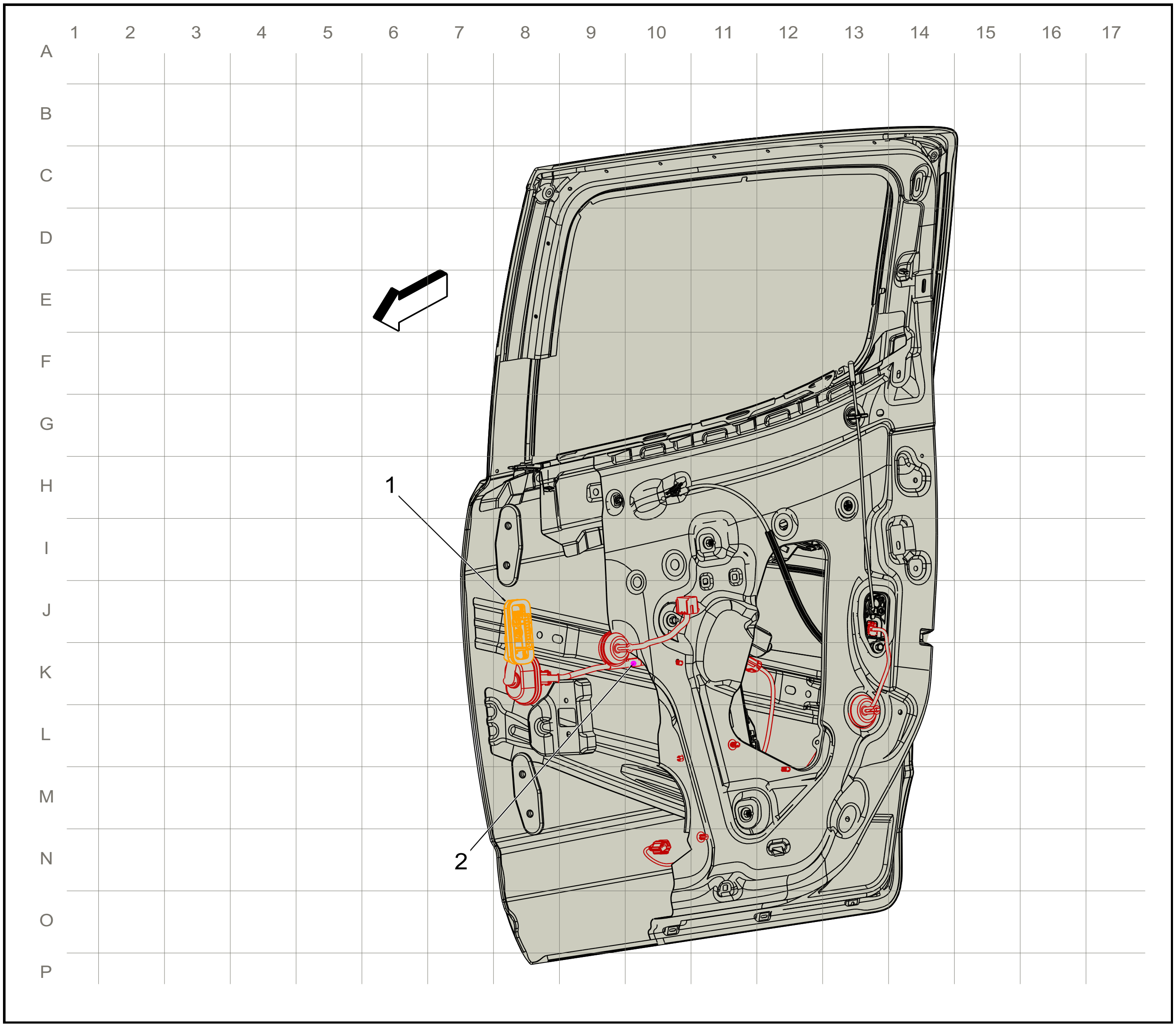
3926742

Items

(1) X700 Left Rear Door Harness to Body Harness (12 cavities)

(2) J701 Left Rear Door Harness

Harness Routing Views (Right Rear Door Harness Routing (Crew Cab))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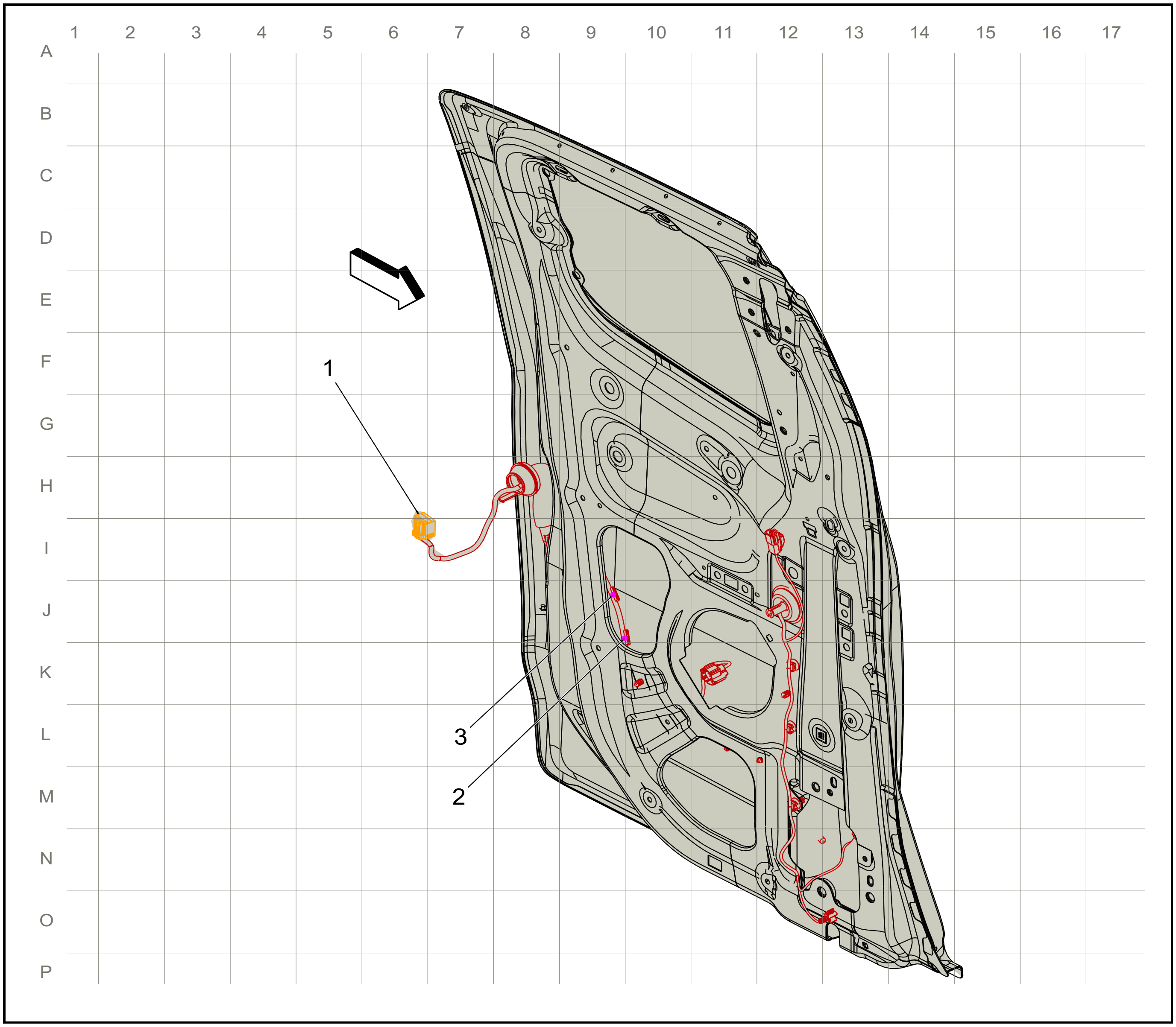
3926747

Items

(1)	X800 Right Rear Door Harness to Body Harness (20 cavities)
(2)	J801 Right Rear Door Harness

Harness Routing Views (Left Rear Door Harness Routing (Exended Cab))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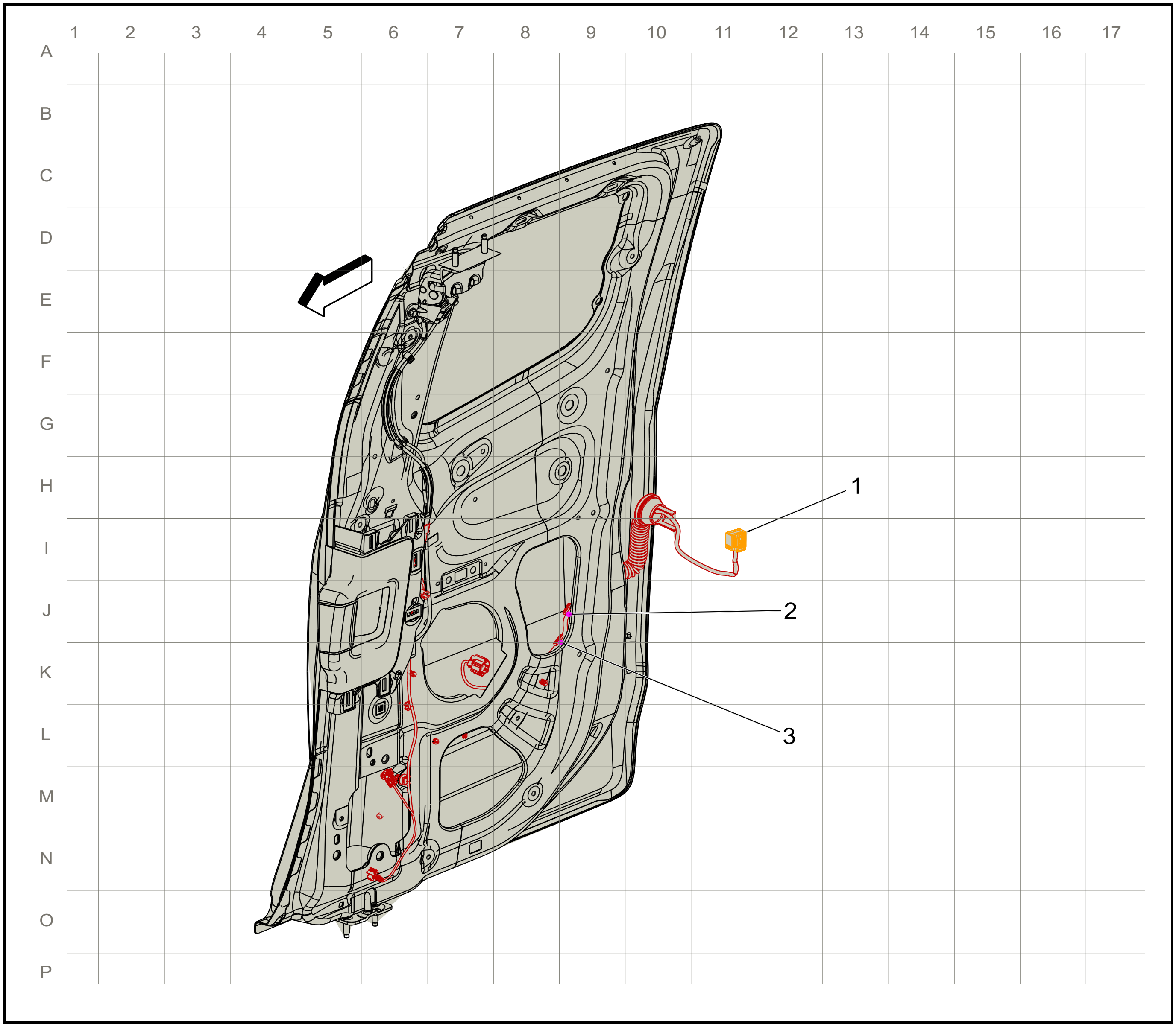
3926802

Items

(1)	X700 Left Rear Door Harness to Body Harness (12 cavities)
(2)	J701 Left Rear Door Harness
(3)	J700 Left Rear Door Harness (Extended Cab)

Harness Routing Views (Right Rear Door Harness Routing (Extended Cab))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3926807

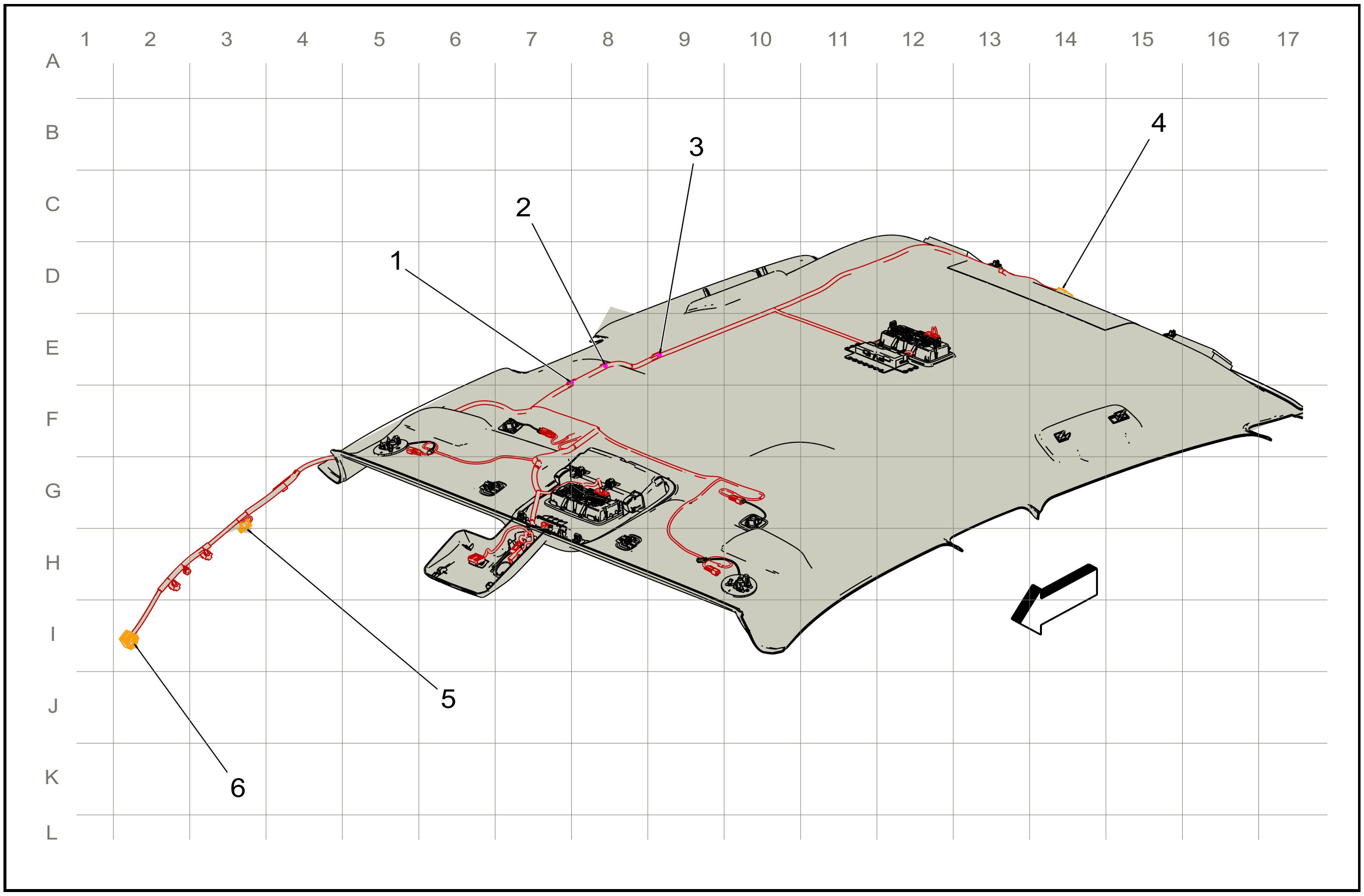
Items

(1) X800 Right Rear Door Harness to Body Harness (20 cavities)

(2) J800 Right Rear Door Harness (Extended Cab)

(3) J801 Right Rear Door Harness

Harness Routing Views (Headliner Harness Routing (Crew Cab))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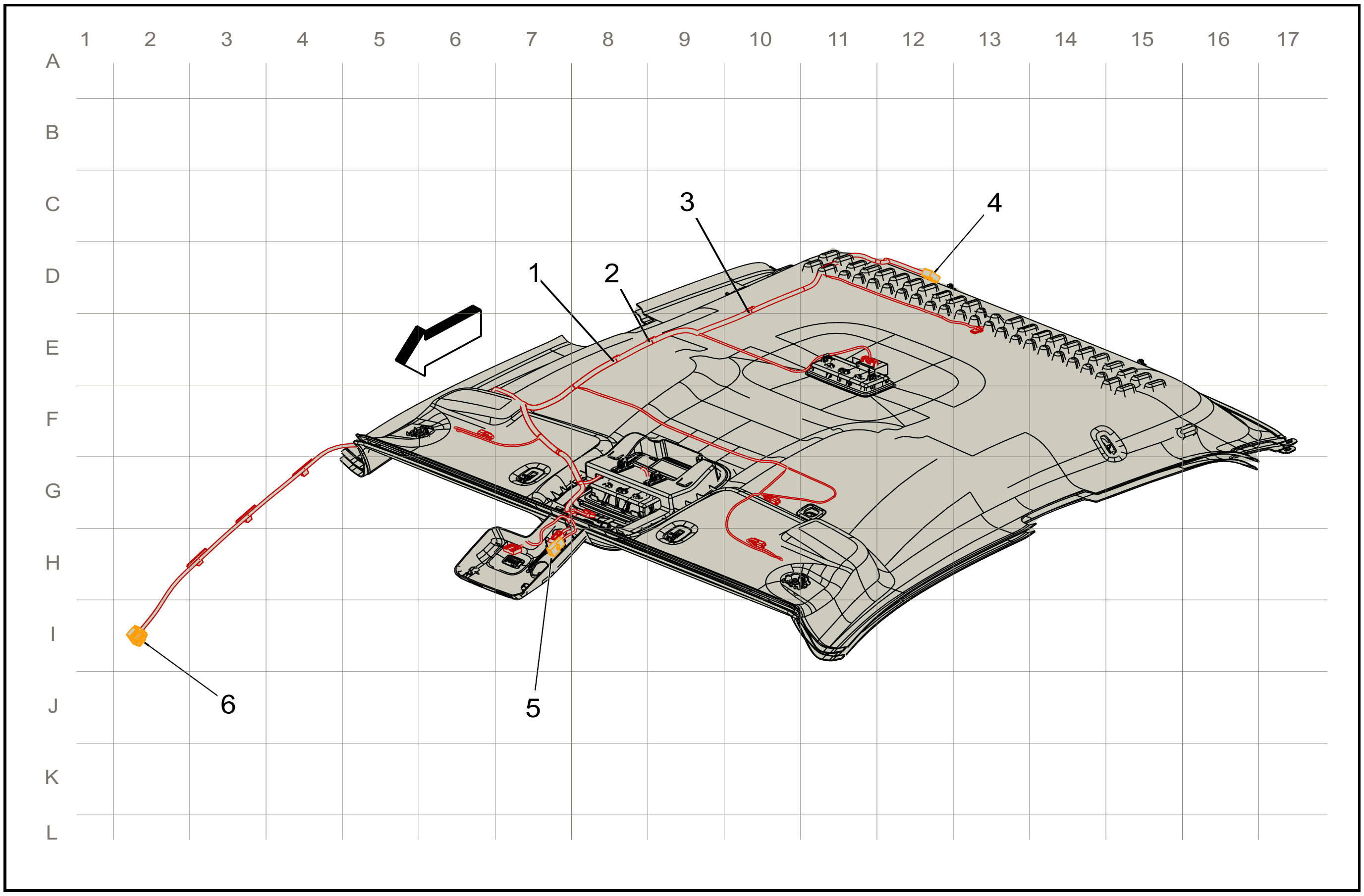
5081379

Items

(1)	J307 Headliner Harness
(2)	J306 Headliner Harness
(3)	J308 Headliner Harness
(4)	X301 Body Harness to Headliner Harness (22 cavities)
(5)	X307 Headliner Harness to Body Harness
(6)	X300 Headliner Harness to Body Harness (16 cavities)

Harness Routing Views (Headliner Harness Routing (Extended Cab))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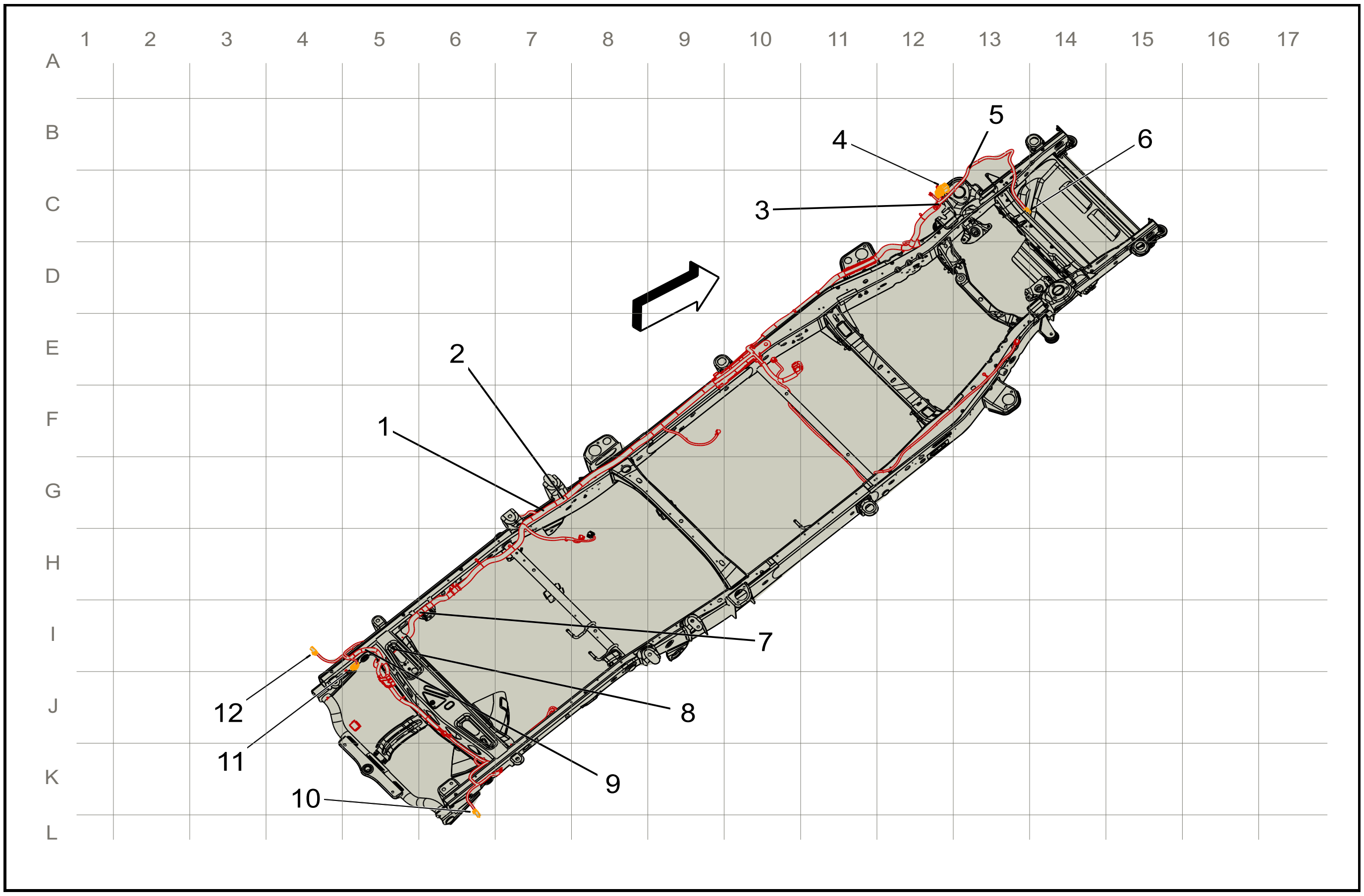
3926888

Items

(1)	J307 Headliner Harness
(2)	J306 Headliner Harness
(3)	J308 Headliner Harness
(4)	X301 Body Harness to Headliner Harness (22 cavities)
(5)	X304 Body Harness to Antenna Harness (C68)
(6)	X300 Headliner Harness to Body Harness (16 cavities)

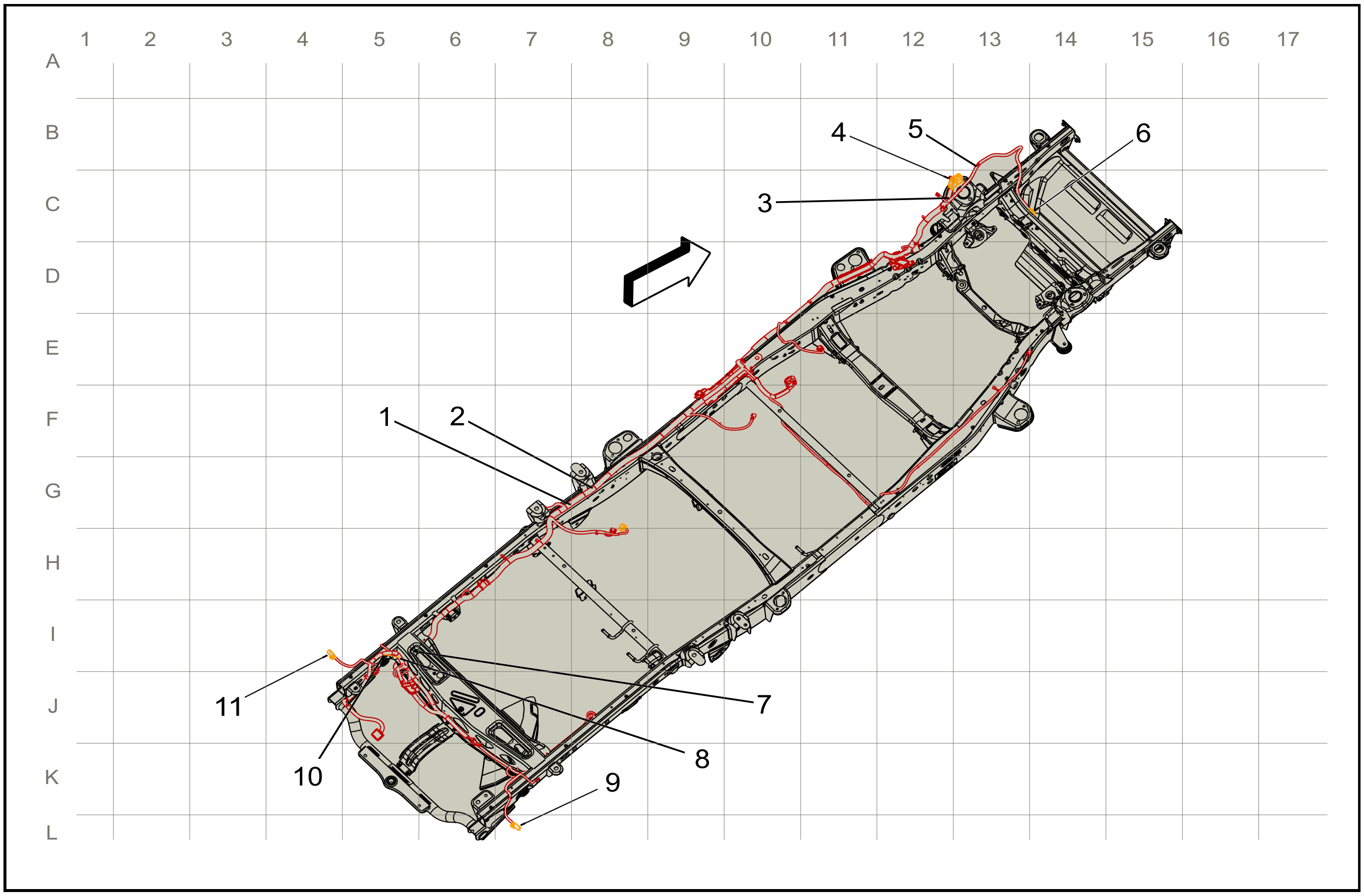
Harness Routing Views (Chassis Harness Routing (Crew Cab))



Items

(1)	J404 Chassis Harness
(2)	J405 Chassis Harness (LCV/LGZ)
(3)	J105 Chassis Harness
(4)	X106 Body Harness to Chassis Harness (48 cavities)
(5)	J104 Chassis Harness
(6)	X103 Chassis Harness to Power Steering Harness (16 cavities)
(7)	J401 Chassis Harness (LCV/LGZ)
(8)	J400 Chassis Harness
(9)	J402 Chassis Harness
(10)	X420 Tail Lamp - Right Harness to Chassis Harness (6 cavities)
(11)	X400 Rear Fascia Harness to Chassis Harness (10 cavities)
(12)	X410 Tail Lamp - Left Harness to Chassis Harness (6 cavities)

Harness Routing Views (Chassis Harness Routing (Extended Cab))

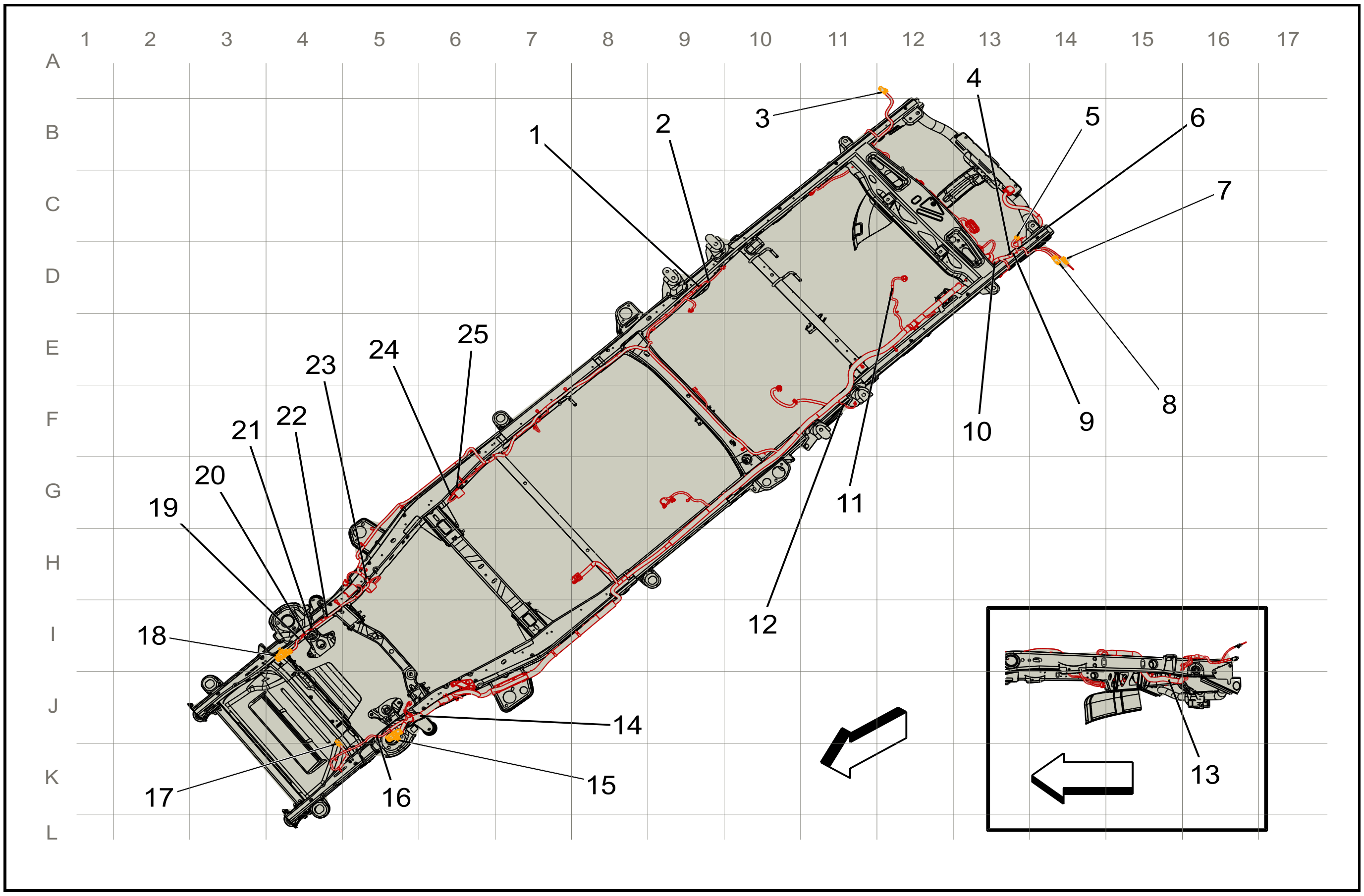


4605112

Items

(1)	J404 Chassis Harness
(2)	J405 Chassis Harness (LCV/LGZ)
(3)	J104 Chassis Harness
(4)	X106 Body Harness to Chassis Harness (48 cavities)
(5)	J105 Chassis Harness
(6)	X103 Chassis Harness to Power Steering Harness (16 cavities)
(7)	J401 Chassis Harness (LCV/LGZ)
(8)	J402 Chassis Harness
(9)	X420 Tail Lamp - Right Harness to Chassis Harness (6 cavities)
(10)	J400 Chassis Harness
(11)	X410 Tail Lamp - Left Harness to Chassis Harness (6 cavities)

Harness Routing Views (Chassis Harness Routing (LWN))

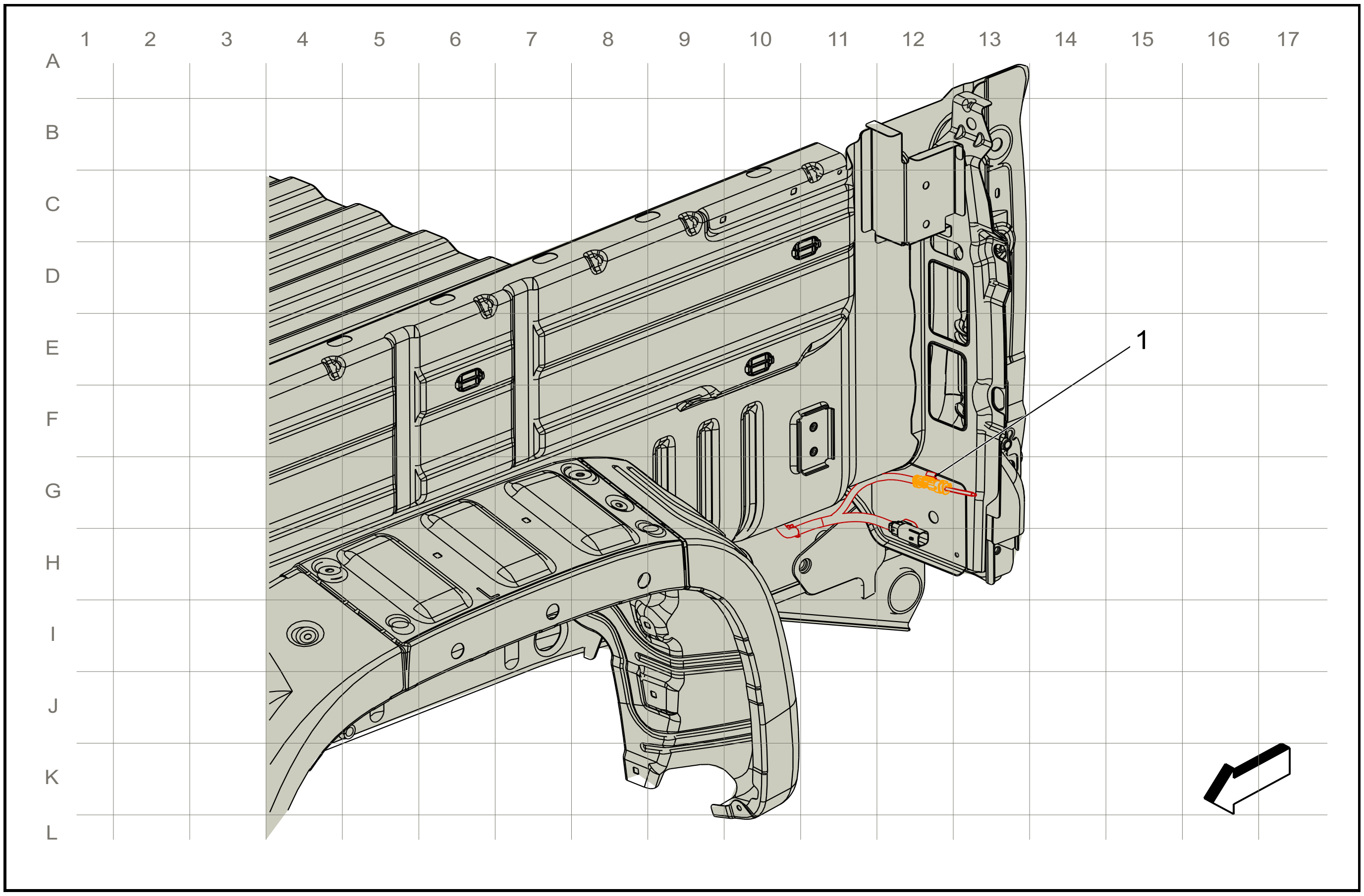


4122385

Items

(1)	J418 Chassis Harness (LWN)
(2)	J419 Chassis Harness (LWN)
(3)	X420 Tail Lamp - Right Harness to Chassis Harness (6 cavities)
(4)	J400 Chassis Harness
(5)	X400 Rear Fascia Harness to Chassis Harness (10 cavities)
(6)	J412 Chassis Harness
(7)	X401 Cargo Lamp Harness to Chassis Harness (2 cavities) (S0Y)
(8)	X410 Tail Lamp - Left Harness to Chassis Harness (6 cavities)
(9)	J411 Chassis Harness
(10)	J415 Chassis Harness (LWN)
(11)	J424 Chassis Harness (LWN)
(12)	J404 Chassis Harness
(13)	J402 Chassis Harness
(14)	J105 Chassis Harness
(15)	X106 Body Harness to Chassis Harness (48 cavities)
(16)	J104 Chassis Harness
(17)	X103 Chassis Harness to Power Steering Harness (16 cavities)
(18)	X107 Engine Harness to Chassis Harness (48 cavities) (LWN)
(19)	J410 Chassis Harness (LWN)
(20)	J423 Chassis Harness (LWN)
(21)	J420 Chassis Harness (LWN)
(22)	J421 Chassis Harness (LWN)
(23)	J416 Chassis Harness (LWN)
(24)	J422 Chassis Harness (LWN)
(25)	J417 Chassis Harness (LWN)

Harness Routing Views (Chassis Harness Routing (S0Y))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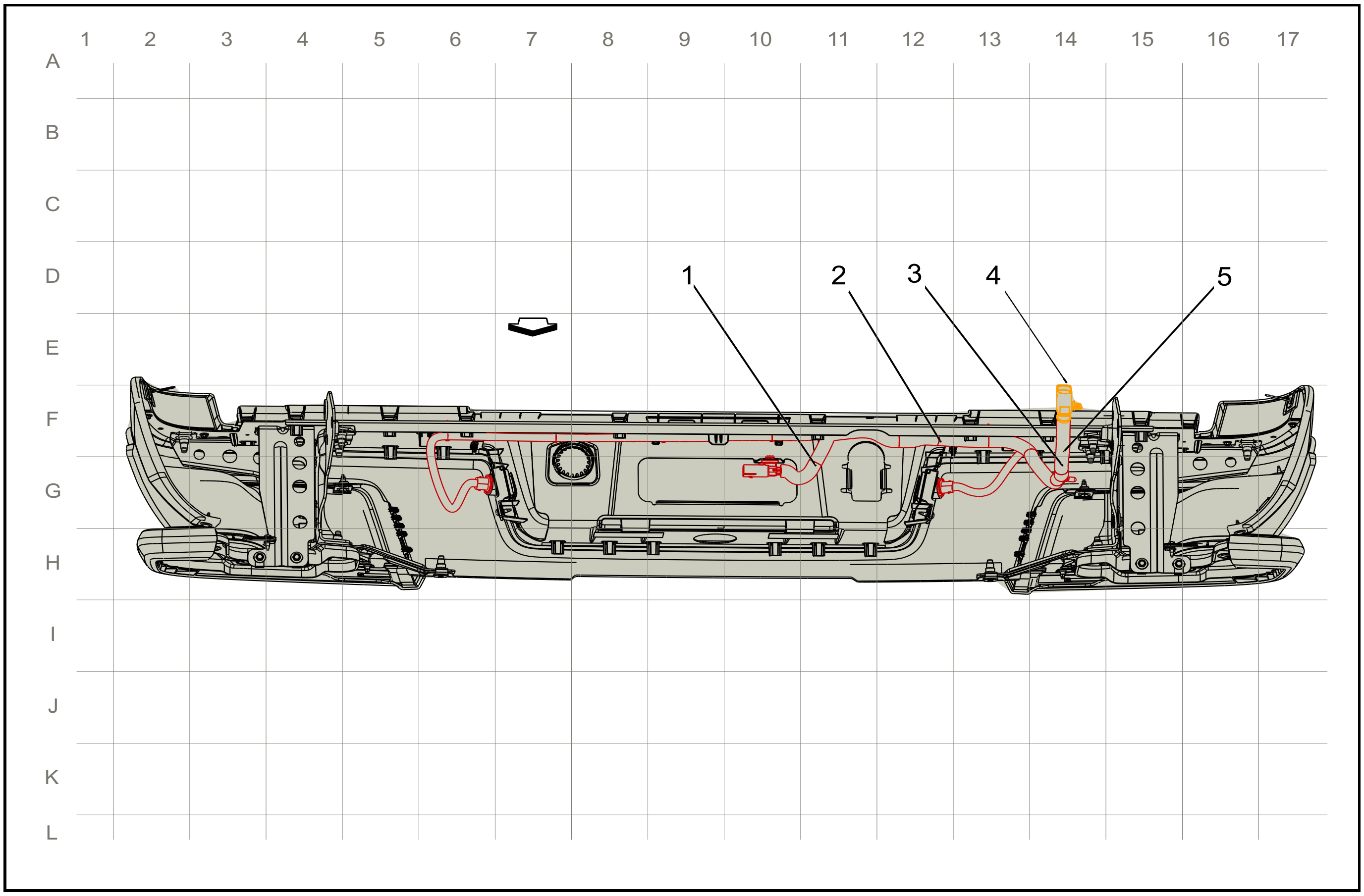
4122386

Items

(1) X401 Cargo Lamp Harness to Chassis Harness (2 cavities) (S0Y)

Harness Routing Views (Rear License Plate Harness Routing)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3931206

Items

(1) J409 License Harness

(2) J408 License Harness

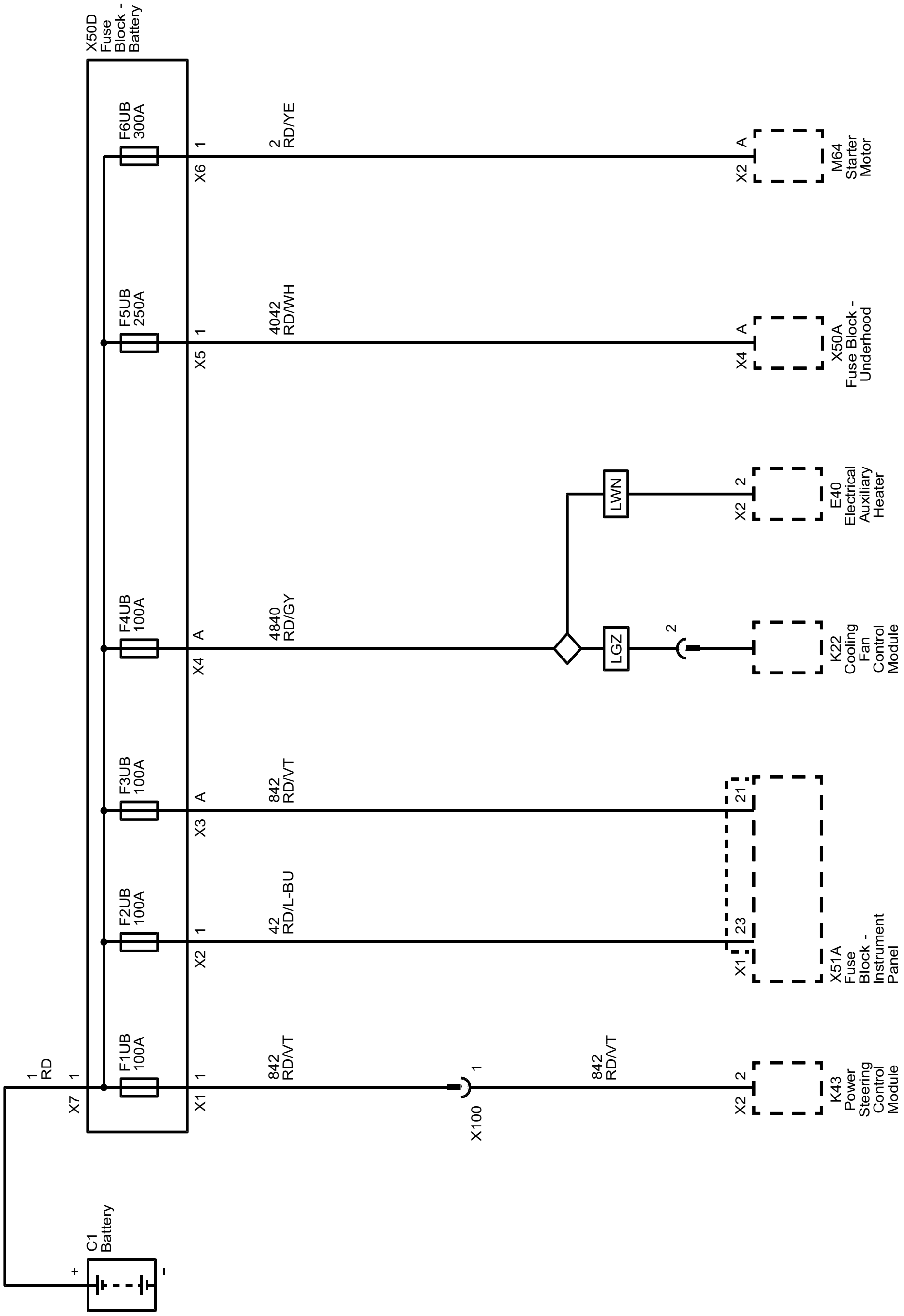
(3) J407 License Harness

(4) X400 Rear Fascia Harness to Chassis Harness (10 cavities)

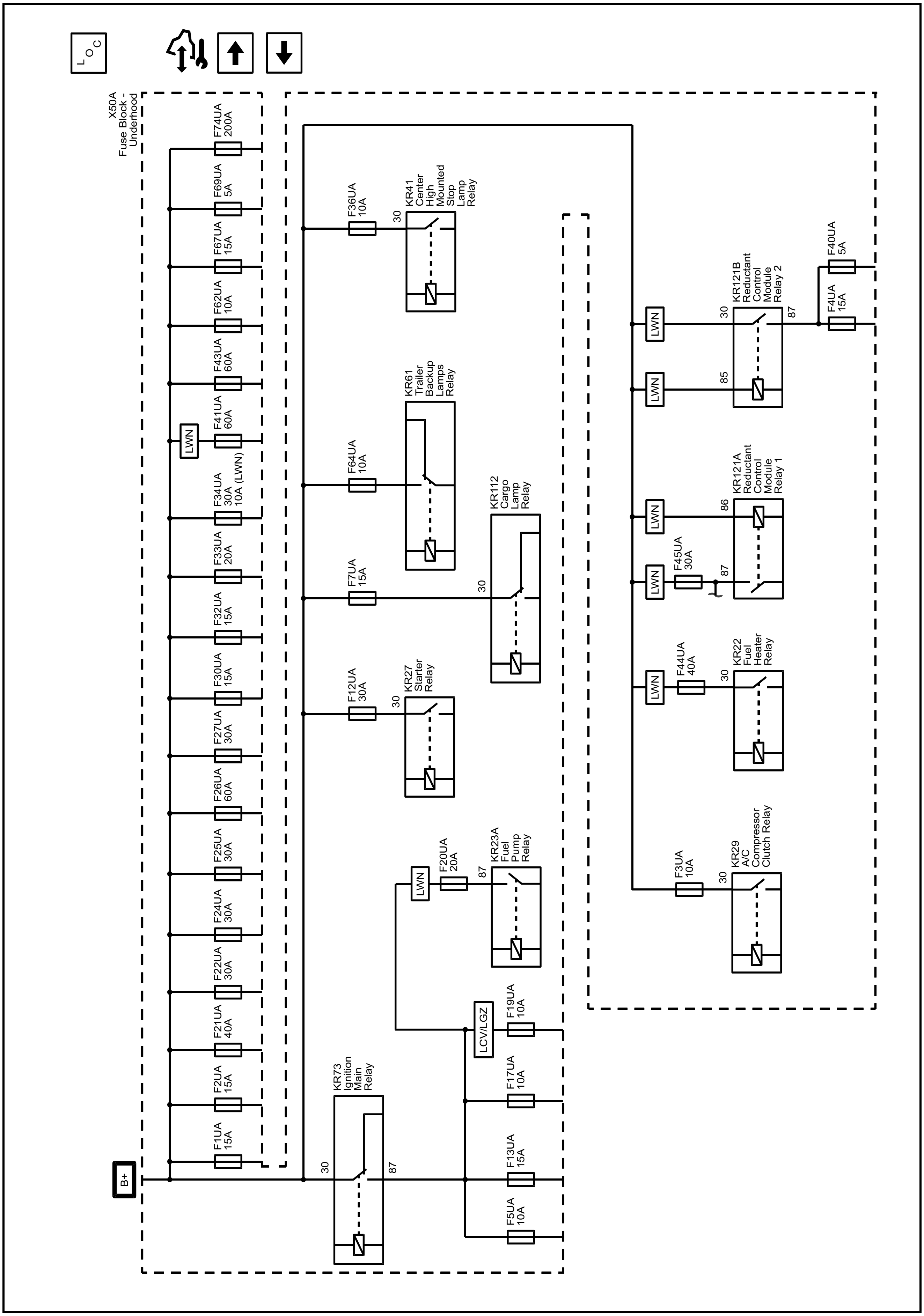
(5) J406 License Harness

Power Distribution Schematics (B+ Bus X50D Fuse Block - Battery)

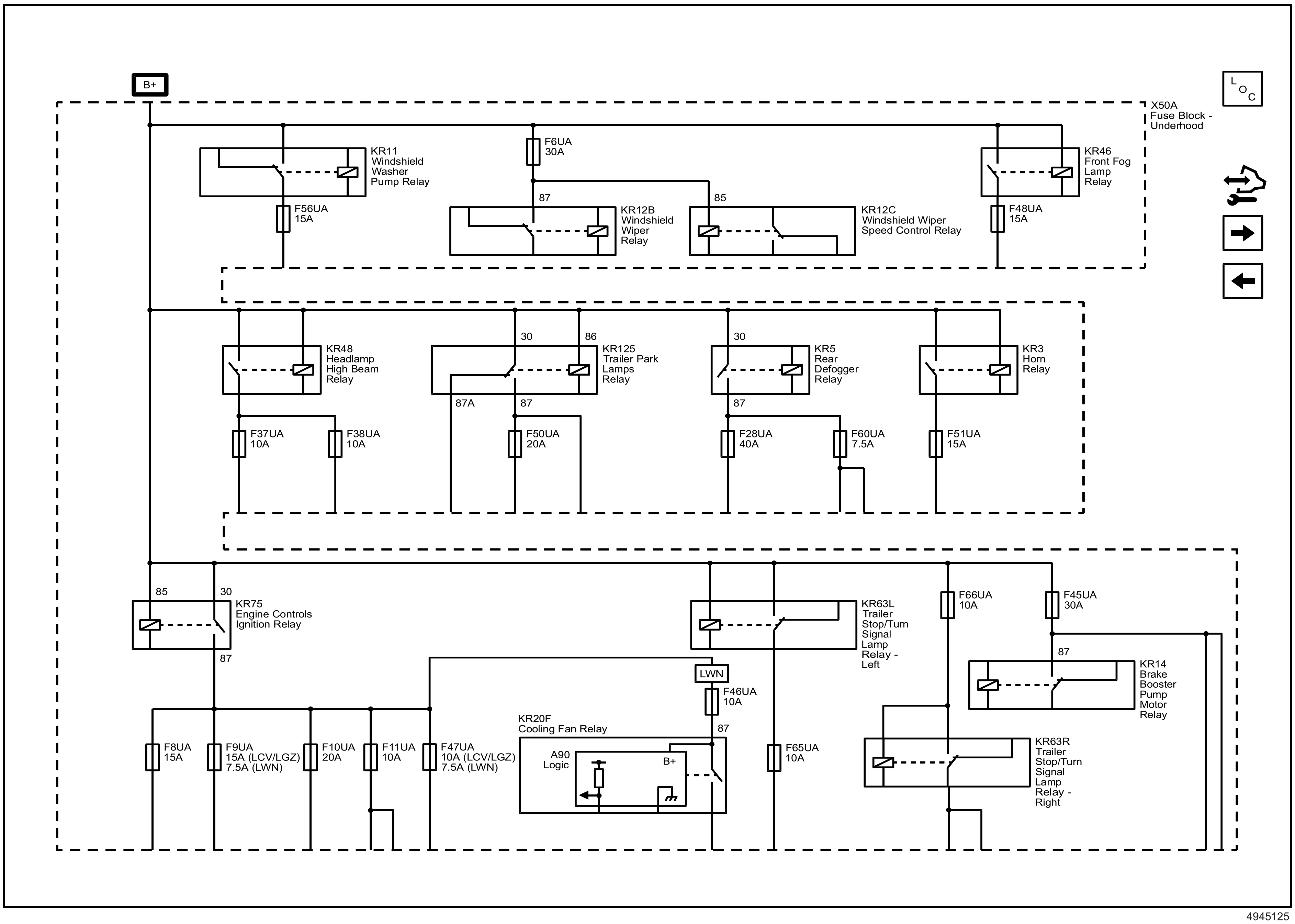
4945123


X50D Fuse Block - Battery
C1 Battery
+
–
1 RD
X7 1
F1UB 100A
F2UB 100A
F3UB 100A
F4UB 100A
F5UB 250A
F6UB 300A
X1 1
X2 1
X3 A
X4 A
X5 1
X6 1
842 RD/VT
42 RD/L-BU
842 RD/VT
4840 RD/GY
4042 RD/WH
2 RD/YE
X100 1
842 RD/VT
LGZ
LWN
2
X2 2
K43 Power Steering Control Module
X1 23
21
X51A Fuse Block - Instrument Panel
K22 Cooling Fan Control Module
X2 2
E40 Electrical Auxiliary Heater
X4 A
X50A Fuse Block - Underhood
X2 A
M64 Starter Motor

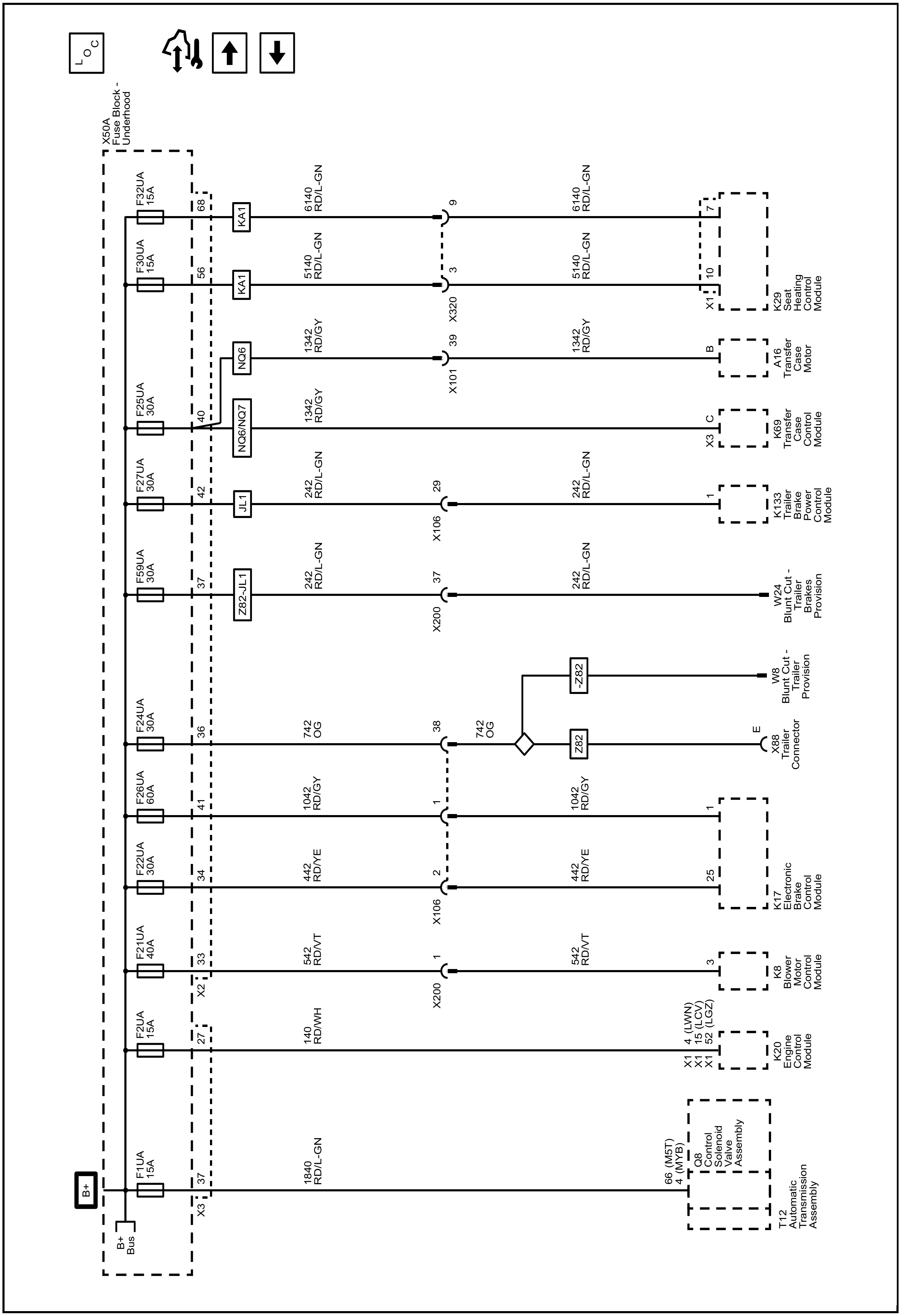
Power Distribution Schematics (B+ Bus X50A Fuse Block - Underhood (1 of 2))


4945124
X50A Fuse Block - Underhood
B+
F1UA 15A
F2UA 15A
F21UA 40A
F22UA 30A
F24UA 30A
F25UA 30A
F26UA 60A
F27UA 30A
F30UA 15A
F32UA 15A
F33UA 20A
F34UA 30A 10A (LWN)
LWN
F41UA 60A
F43UA 60A
F62UA 10A
F67UA 15A
F69UA 5A
F74UA 200A
KR73 Ignition Main Relay
30
87
F5UA 10A
F13UA 15A
F17UA 10A
LCV/LGZ
F19UA 10A
LWN
F20UA 20A
87
KR23A Fuel Pump Relay
F12UA 30A
30
KR27 Starter Relay
F7UA 15A
30
KR112 Cargo Lamp Relay
F64UA 10A
KR61 Trailer Backup Lamps Relay
F36UA 10A
30
KR41 Center High Mounted Stop Lamp Relay
F3UA 10A
30
KR29 A/C Compressor Clutch Relay
LWN
F44UA 40A
30
KR22 Fuel Heater Relay
LWN
F45UA 30A
87
LWN
86
KR121A Reductant Control Module Relay 1
LWN
85
LWN
30
KR121B Reductant Control Module Relay 2
87
F4UA 15A
F40UA 5A

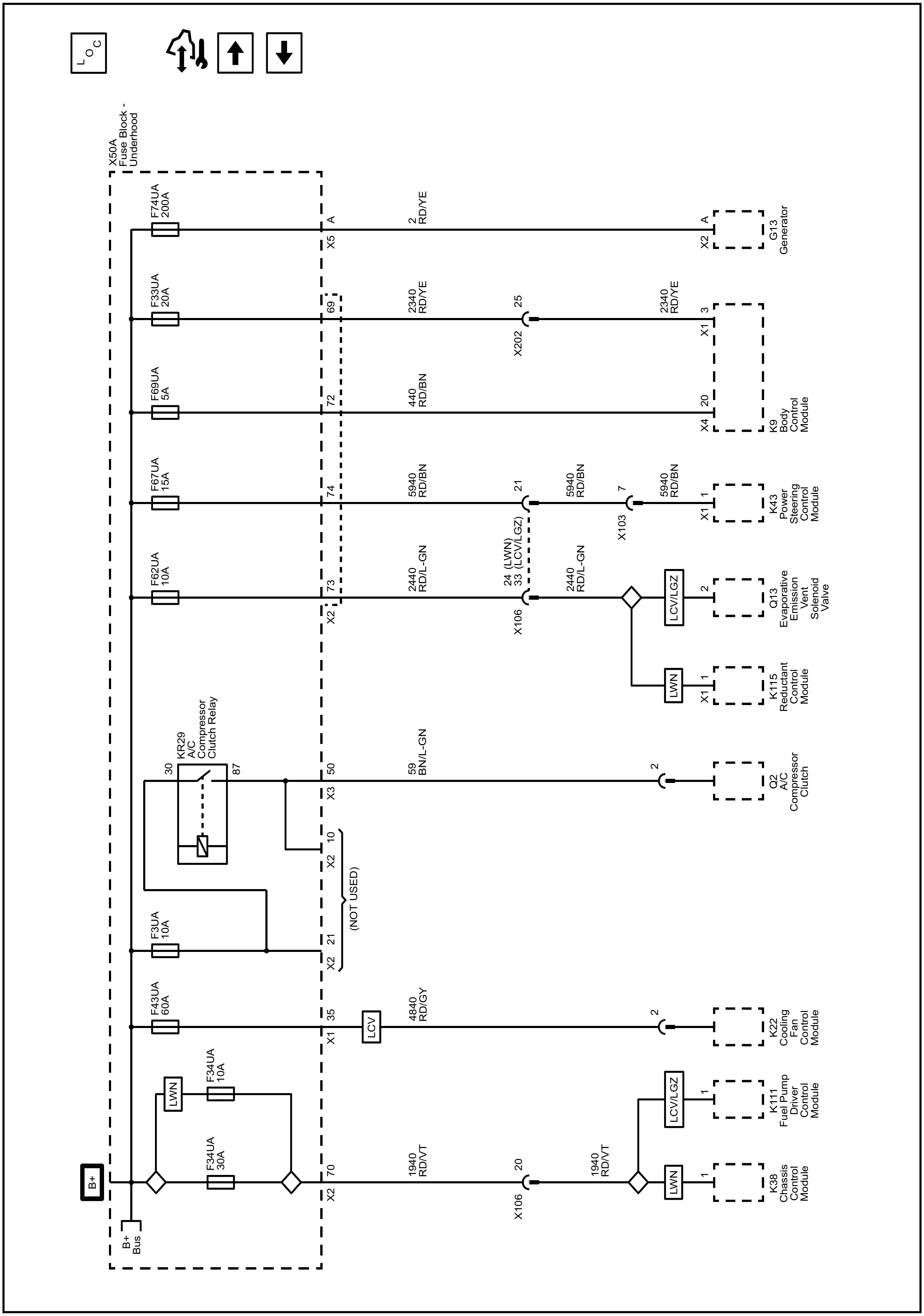
Power Distribution Schematics (B+ Bus X50A Fuse Block - Underhood (2 of 2))


B+
X50A
Fuse Block -
Underhood
KR11
Windshield
Washer
Pump Relay
F56UA
15A
F6UA
30A
87
KR12B
Windshield
Wiper
Relay
85
KR12C
Windshield Wiper
Speed Control Relay
KR46
Front Fog
Lamp
Relay
F48UA
15A
KR48
Headlamp
High Beam
Relay
F37UA
10A
F38UA
10A
30
86
KR125
Trailer Park
Lamps
Relay
87A
87
F50UA
20A
30
KR5
Rear
Defogger
Relay
87
F28UA
40A
F60UA
7.5A
KR3
Horn
Relay
F51UA
15A
85
30
KR75
Engine Controls
Ignition Relay
87
F8UA
15A
F9UA
15A (LCV/LGZ)
7.5A (LWN)
F10UA
20A
F11UA
10A
F47UA
10A (LCV/LGZ)
7.5A (LWN)
KR20F
Cooling Fan Relay
A90
Logic
B+
LWN
F46UA
10A
87
KR63L
Trailer
Stop/Turn
Signal
Lamp
Relay -
Left
F65UA
10A
F66UA
10A
F45UA
30A
87
KR14
Brake
Booster
Pump
Motor
Relay
KR63R
Trailer
Stop/Turn
Signal
Lamp
Relay -
Right
L O C
4945125

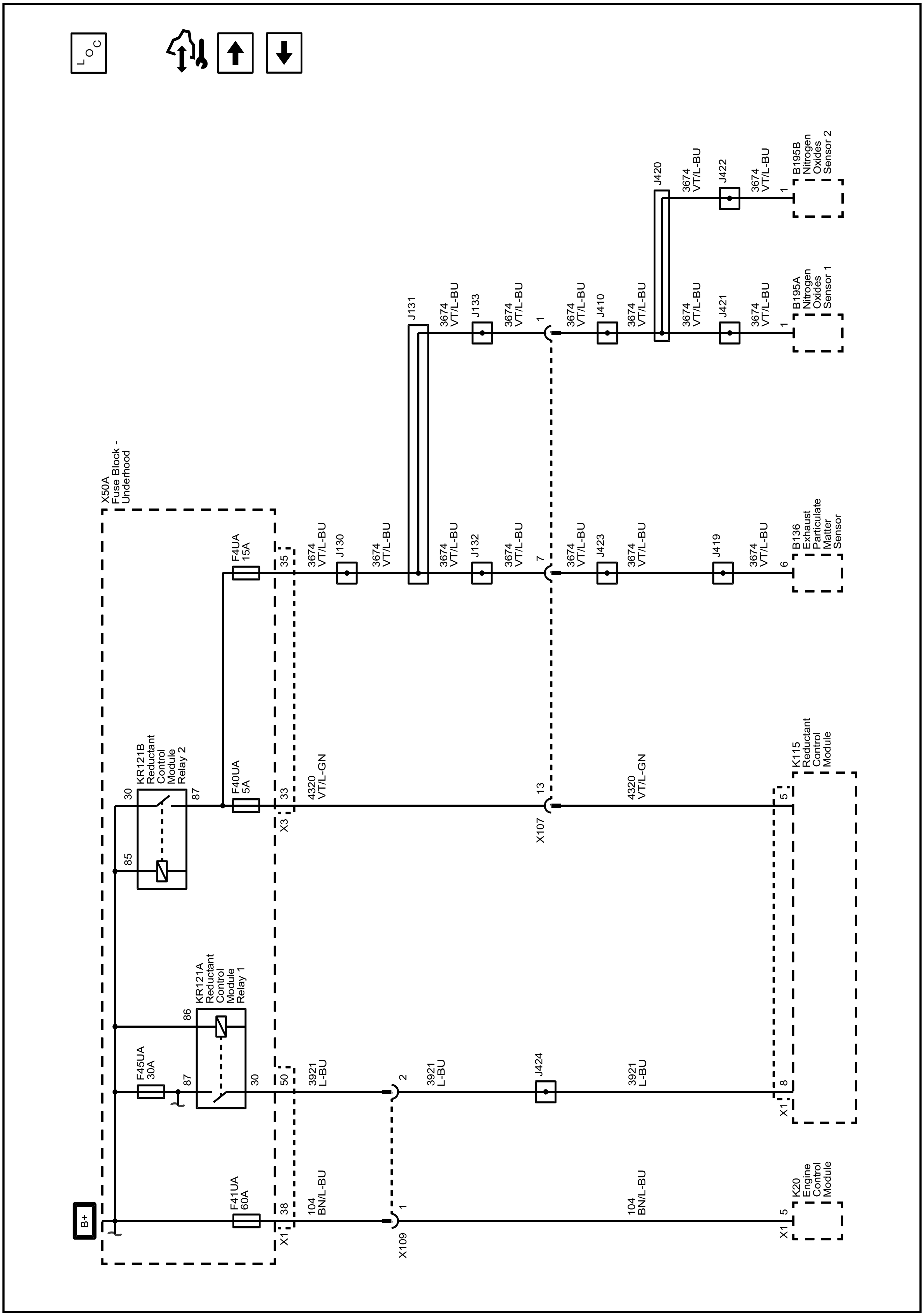
Power Distribution Schematics (F1UA, F2UA, F21UA, F22UA, F24UA, F25UA, F26UA, F27UA, F30UA, and F32UA Fuses)


4945126
B+
X50A Fuse Block - Underhood
B+ Bus
F1UA 15A
F2UA 15A
F21UA 40A
F22UA 30A
F26UA 60A
F24UA 30A
F59UA 30A
F27UA 30A
F25UA 30A
F30UA 15A
F32UA 15A
X3
X2
37
27
33
34
41
36
37
42
40
56
68
KA1
KA1
NQ6
NQ6/NQ7
JL1
Z82-JL1
Z82
-Z82
1840 RD/L-GN
140 RD/WH
542 RD/VT
442 RD/YE
1042 RD/GY
742 OG
242 RD/L-GN
1342 RD/GY
5140 RD/L-GN
6140 RD/L-GN
X200
X106
X101
X320
1
2
1
38
37
29
39
3
9
66 (M5T)
4 (MYB)
X1 4 (LWN)
X1 15 (LCV)
X1 52 (LGZ)
3
25
1
E
C
X3
B
X1 10
7
Q8 Control Solenoid Valve Assembly
T12 Automatic Transmission Assembly
K20 Engine Control Module
K8 Blower Motor Control Module
K17 Electronic Brake Control Module
X88 Trailer Connector
W8 Blunt Cut - Trailer Provision
W24 Blunt Cut - Trailer Brakes Provision
K133 Trailer Brake Power Control Module
K69 Transfer Case Control Module
A16 Transfer Case Motor
K29 Seat Heating Control Module

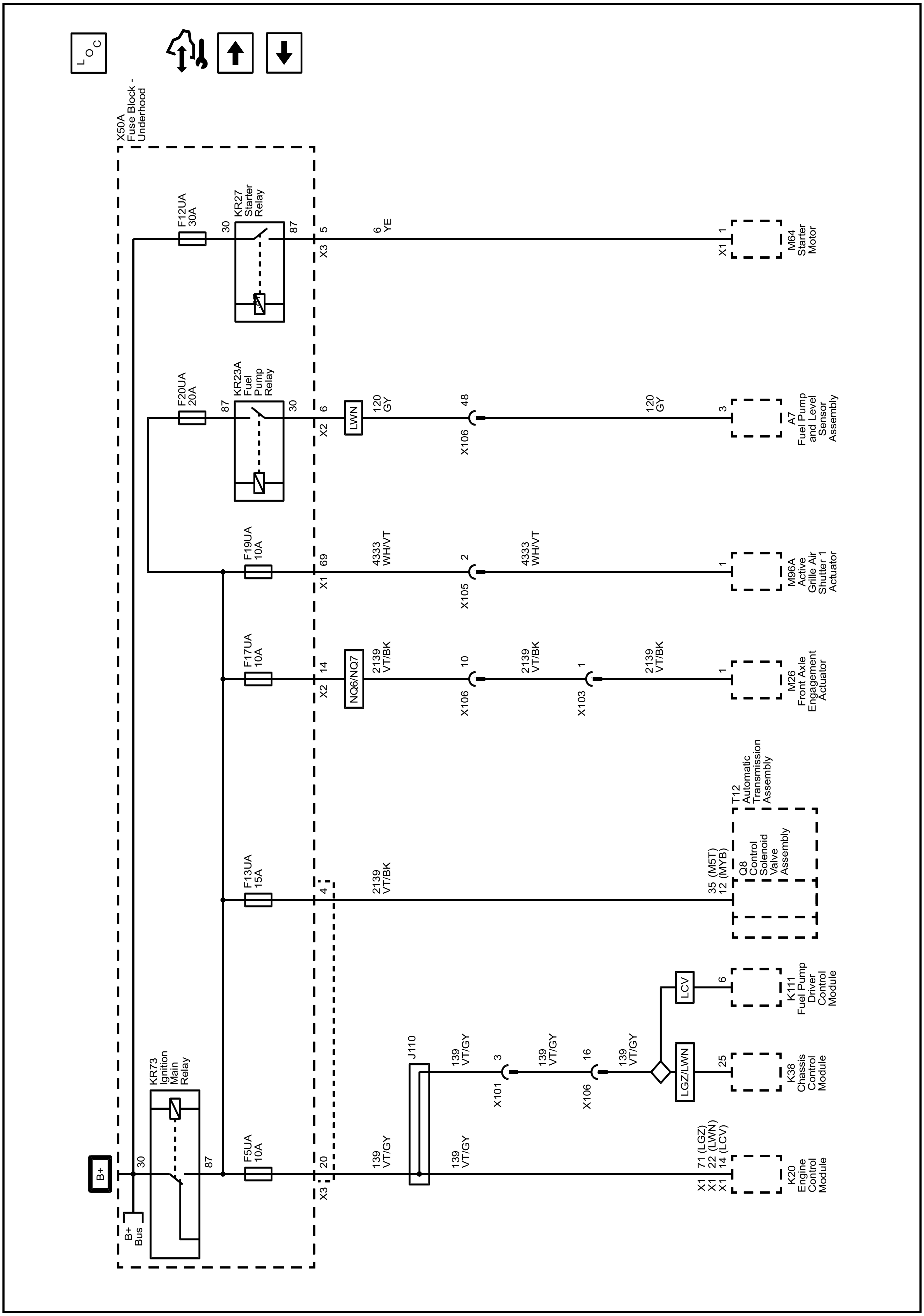
Power Distribution Schematics (F3UA, F33UA, F34UA, F43UA, F62UA, F67UA, F69UA, and F74UA Fuses)


4945128
L O C
B+
B+ Bus
X50A Fuse Block - Underhood
F74UA 200A
F33UA 20A
F69UA 5A
F67UA 15A
F62UA 10A
KR29 A/C Compressor Clutch Relay
30
87
F3UA 10A
F43UA 60A
F34UA 10A
F34UA 30A
LWN
X5 A
X2 69
72
74
X2 73
X3 50
X2 10
X2 21
(NOT USED)
X1 35
X2 70
2 RD/YE
2340 RD/YE
440 RD/BN
5940 RD/BN
2440 RD/L-GN
59 BN/L-GN
LCV
4840 RD/GY
1940 RD/VT
25
X202
21
24 (LWN)
33 (LCV/LGZ)
X106
20
X106
5940 RD/BN
2440 RD/L-GN
1940 RD/VT
7
X103
2340 RD/YE
5940 RD/BN
LCV/LGZ
LWN
LCV/LGZ
LWN
2
2
X2 A
G13 Generator
X1 3
X4 20
K9 Body Control Module
X1 1
K43 Power Steering Control Module
2
Q13 Evaporative Emission Vent Solenoid Valve
X1 1
K115 Reductant Control Module
Q2 A/C Compressor Clutch
K22 Cooling Fan Control Module
1
K111 Fuel Pump Driver Control Module
1
K38 Chassis Control Module

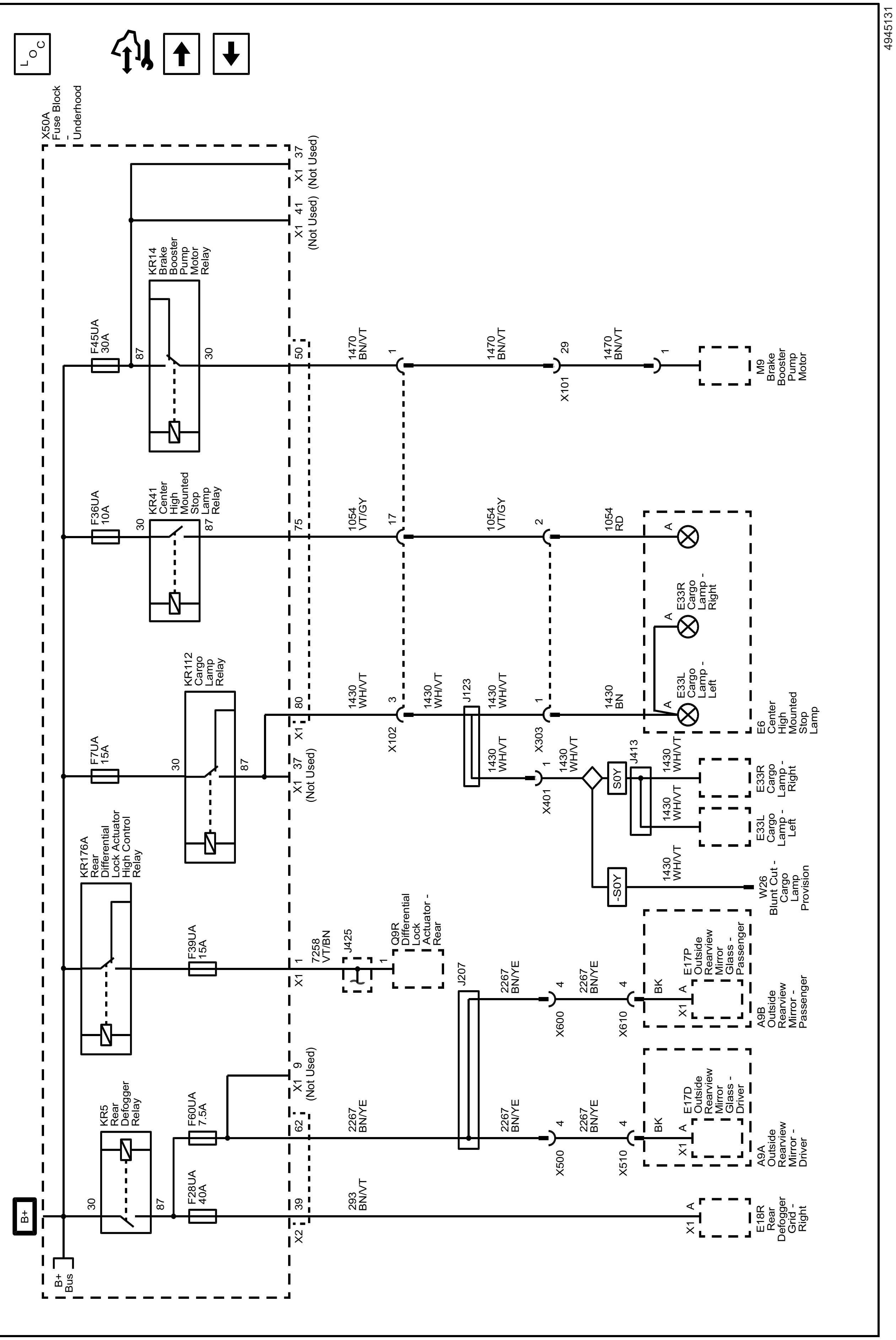
Power Distribution Schematics (F4UA, F40UA, F41UA, and F45UA Fuses (LWN))


4945129
B+
X50A Fuse Block - Underhood
F41UA 60A
F45UA 30A
KR121A Reductant Control Module Relay 1
86
87
30
KR121B Reductant Control Module Relay 2
85
30
87
F40UA 5A
F4UA 15A
X1 38
50
X3 33
35
104 BN/L-BU
3921 L-BU
4320 VT/L-GN
3674 VT/L-BU
X109
1
2
J424
X107
13
7
1
J130
J131
J132
J133
J423
J410
J419
J420
J421
J422
K20 Engine Control Module
X1 5
K115 Reductant Control Module
X1 8
5
B136 Exhaust Particulate Matter Sensor
6
B195A Nitrogen Oxides Sensor 1
1
B195B Nitrogen Oxides Sensor 2
1

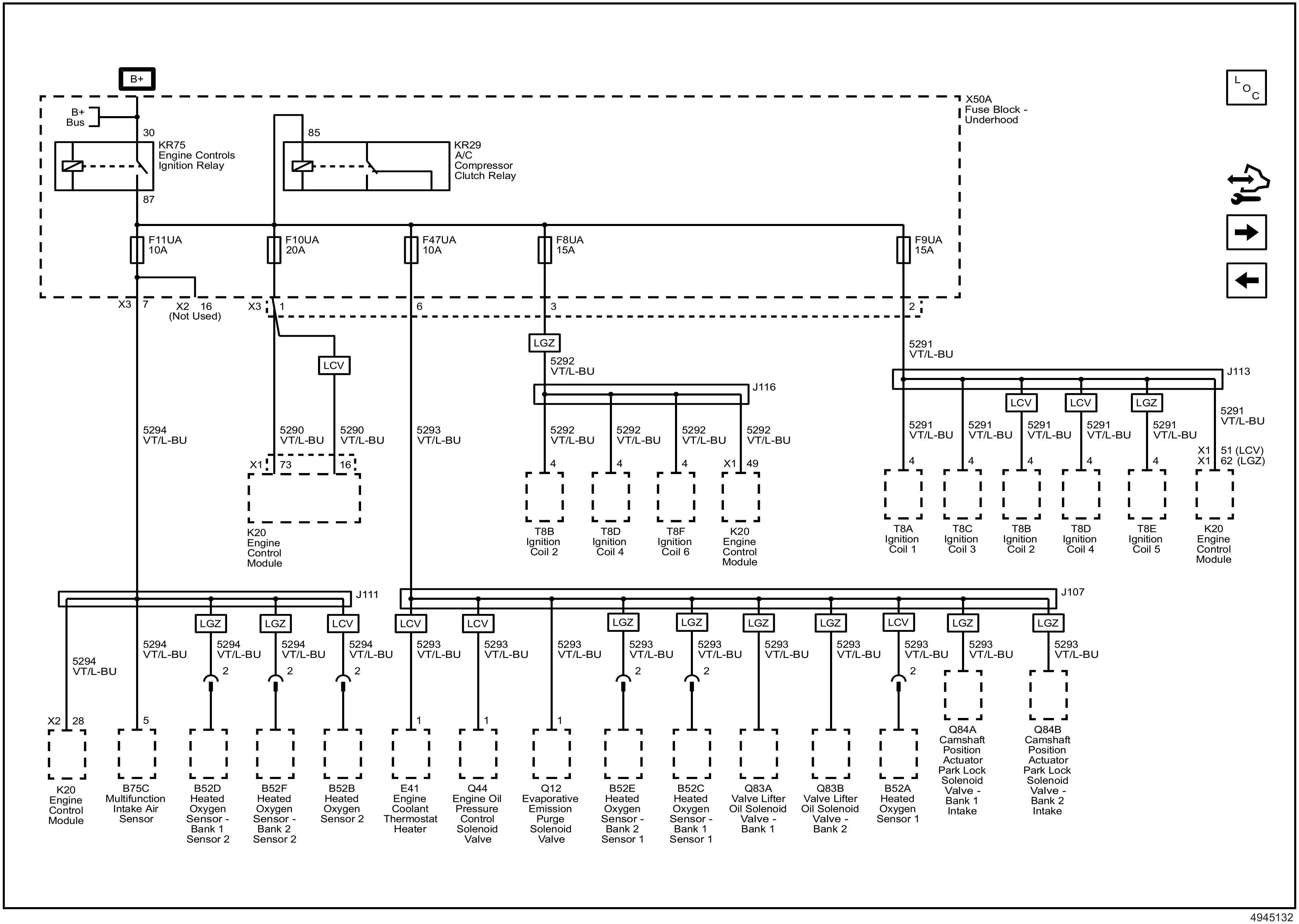
Power Distribution Schematics (F5UA, F12UA, F13UA, F17UA, F19UA, and F20UA Fuses)


4945130
L O C
X50A Fuse Block - Underhood
B+
B+ Bus
KR73 Ignition Main Relay
30
87
F5UA 10A
F13UA 15A
F17UA 10A
F19UA 10A
F20UA 20A
F12UA 30A
KR23A Fuel Pump Relay
KR27 Starter Relay
X3 20
139 VT/GY
J110
139 VT/GY
X101 3
139 VT/GY
X106 16
139 VT/GY
LGZ/LWN
LCV
X1 71 (LGZ)
X1 22 (LWN)
X1 14 (LCV)
K20 Engine Control Module
25
K38 Chassis Control Module
6
K111 Fuel Pump Driver Control Module
4
2139 VT/BK
35 (M5T)
12 (MYB)
Q8 Control Solenoid Valve Assembly
T12 Automatic Transmission Assembly
X2 14
NQ6/NQ7
2139 VT/BK
X106 10
2139 VT/BK
X103 1
2139 VT/BK
1
M26 Front Axle Engagement Actuator
X1 69
4333 WH/VT
X105 2
4333 WH/VT
1
M96A Active Grille Air Shutter 1 Actuator
X2 6
LWN
120 GY
X106 48
120 GY
3
A7 Fuel Pump and Level Sensor Assembly
X3 5
6 YE
X1 1
M64 Starter Motor

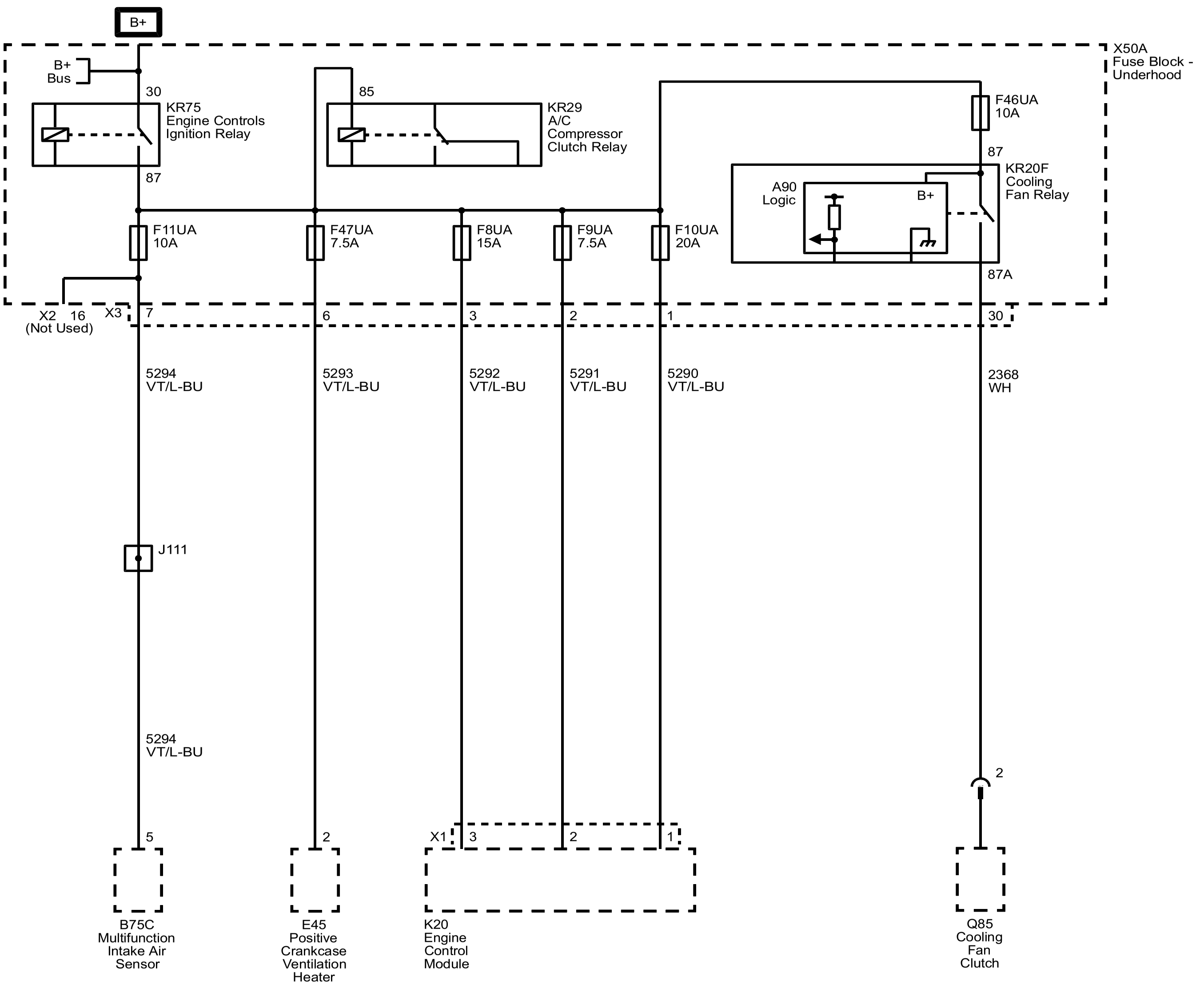
Power Distribution Schematics (F7UA, F28UA, F36UA, F39UA, F45UA, and F60UA Fuses)


4945131
L O C
X50A Fuse Block - Underhood
B+
B+ Bus
F45UA 30A
KR14 Brake Booster Pump Motor Relay
87
30
X1 41 (Not Used)
X1 37 (Not Used)
50
1470 BN/VT
1
1470 BN/VT
29
X101
1470 BN/VT
1
M9 Brake Booster Pump Motor
F36UA 10A
KR41 Center High Mounted Stop Lamp Relay
30
87
75
1054 VT/GY
17
1054 VT/GY
2
1054 RD
A
E6 Center High Mounted Stop Lamp
E33R Cargo Lamp - Right
A
E33L Cargo Lamp - Left
A
F7UA 15A
KR112 Cargo Lamp Relay
30
87
X1 37 (Not Used)
X1 80
1430 WH/VT
3
X102
1430 WH/VT
J123
1430 WH/VT
1
X303
1430 BN
1430 WH/VT
1
X401
1430 WH/VT
S0Y
J413
1430 WH/VT
1430 WH/VT
E33R Cargo Lamp - Right
E33L Cargo Lamp - Left
-S0Y
1430 WH/VT
W26 Blunt Cut - Cargo Lamp Provision
KR176A Rear Differential Lock Actuator High Control Relay
F39UA 15A
X1 1
7258 VT/BN
J425
1
Q9R Differential Lock Actuator - Rear
J207
2267 BN/YE
4
X600
2267 BN/YE
4
X610
BK
A
X1
E17P Outside Rearview Mirror Glass - Passenger
A9B Outside Rearview Mirror - Passenger
KR5 Rear Defogger Relay
F60UA 7.5A
X1 9 (Not Used)
62
2267 BN/YE
2267 BN/YE
4
X500
2267 BN/YE
4
X510
BK
A
X1
E17D Outside Rearview Mirror Glass - Driver
A9A Outside Rearview Mirror - Driver
30
87
F28UA 40A
39
X2
293 BN/VT
A
X1
E18R Rear Defogger Grid - Right

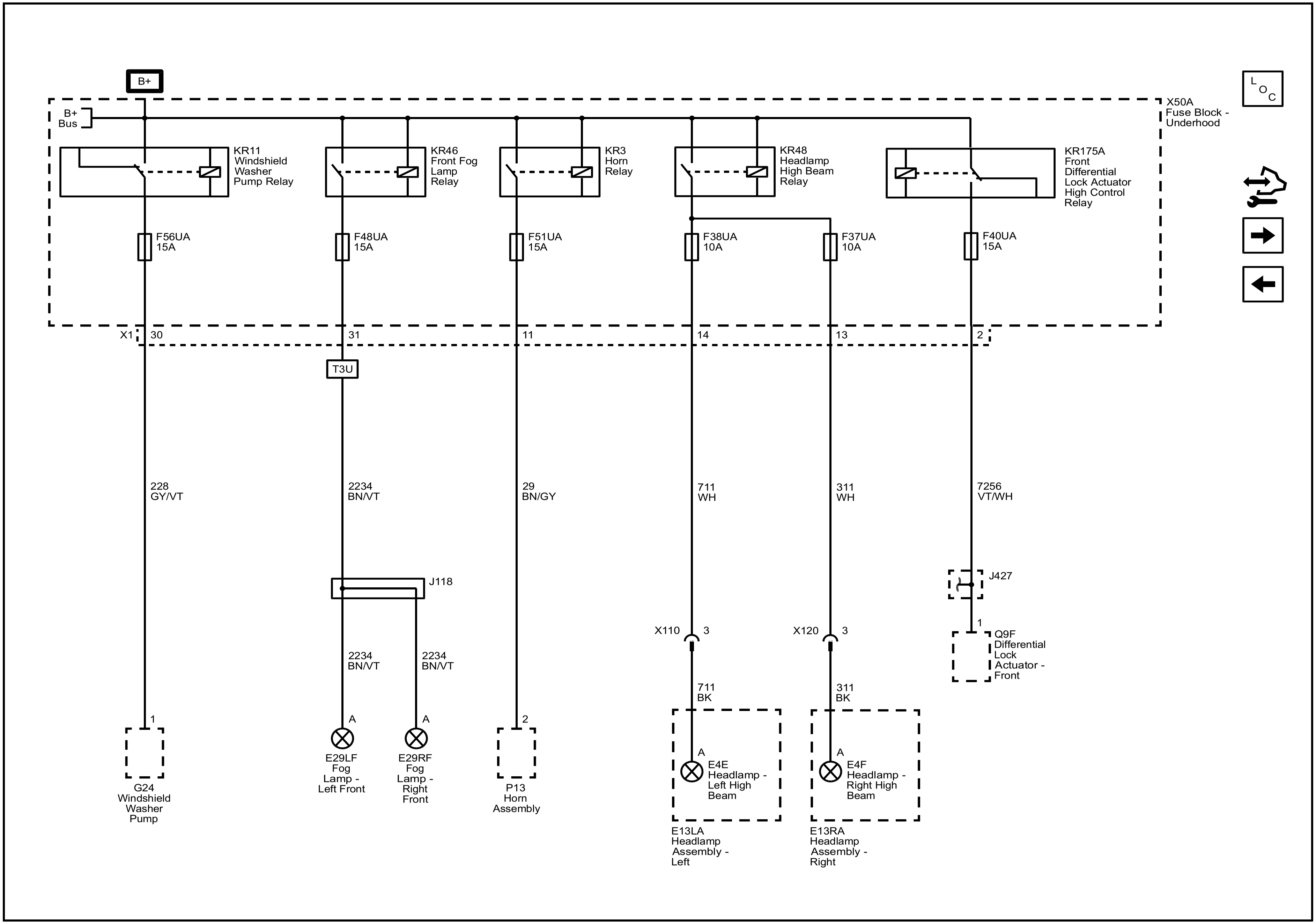
Power Distribution Schematics (F8UA, F9UA, F10UA, F11UA, and F47UA Fuses (LCV/LGZ/Gasoline))


B+
B+ Bus
30
KR75 Engine Controls Ignition Relay
87
85
KR29 A/C Compressor Clutch Relay
X50A Fuse Block - Underhood
F11UA 10A
F10UA 20A
F47UA 10A
F8UA 15A
F9UA 15A
X3 7
X2 16 (Not Used)
X3 1
6
3
2
LGZ
5292 VT/L-BU
J116
LCV
5291 VT/L-BU
J113
5294 VT/L-BU
5290 VT/L-BU
5290 VT/L-BU
5293 VT/L-BU
X1 73
16
K20 Engine Control Module
5292 VT/L-BU
4
T8B Ignition Coil 2
4
T8D Ignition Coil 4
4
T8F Ignition Coil 6
X1 49
K20 Engine Control Module
LCV
LCV
LGZ
5291 VT/L-BU
4
T8A Ignition Coil 1
4
T8C Ignition Coil 3
4
T8B Ignition Coil 2
4
T8D Ignition Coil 4
4
T8E Ignition Coil 5
X1 51 (LCV)
X1 62 (LGZ)
K20 Engine Control Module
J111
J107
LGZ
LGZ
LCV
LCV
LCV
LGZ
LGZ
LGZ
LGZ
LCV
LGZ
LGZ
5294 VT/L-BU
5293 VT/L-BU
X2 28
K20 Engine Control Module
5
B75C Multifunction Intake Air Sensor
2
B52D Heated Oxygen Sensor - Bank 1 Sensor 2
2
B52F Heated Oxygen Sensor - Bank 2 Sensor 2
2
B52B Heated Oxygen Sensor 2
1
E41 Engine Coolant Thermostat Heater
1
Q44 Engine Oil Pressure Control Solenoid Valve
1
Q12 Evaporative Emission Purge Solenoid Valve
2
B52E Heated Oxygen Sensor - Bank 2 Sensor 1
2
B52C Heated Oxygen Sensor - Bank 1 Sensor 1
Q83A Valve Lifter Oil Solenoid Valve - Bank 1
Q83B Valve Lifter Oil Solenoid Valve - Bank 2
2
B52A Heated Oxygen Sensor 1
Q84A Camshaft Position Actuator Park Lock Solenoid Valve - Bank 1 Intake
Q84B Camshaft Position Actuator Park Lock Solenoid Valve - Bank 2 Intake
L O C
4945132

Power Distribution Schematics (F8UA, F9UA, F10UA, F11UA, F46UA, and F47UA Fuses (LWN/Diesel))

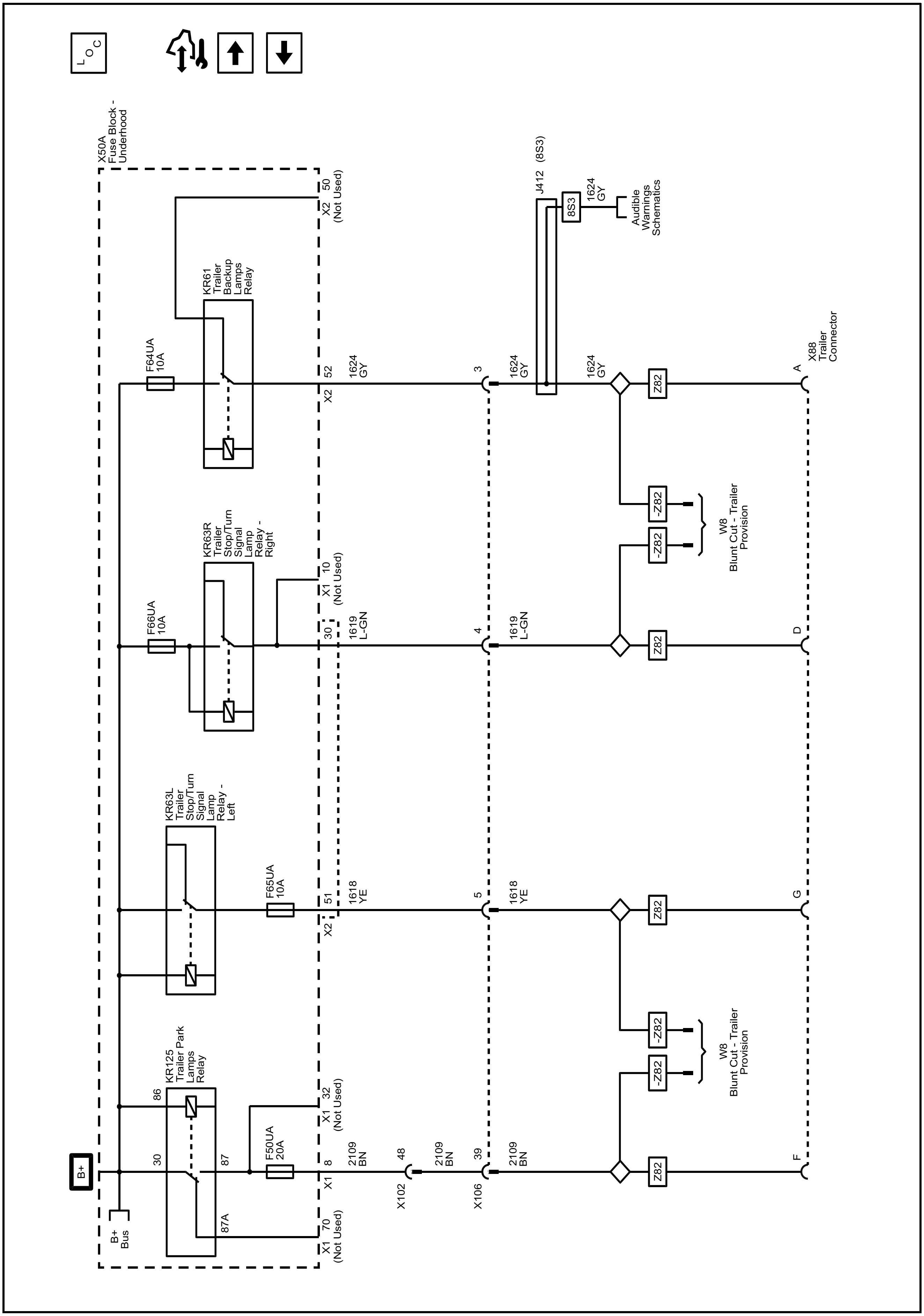

B+
X50A
Fuse Block -
Underhood
B+
Bus
30
KR75
Engine Controls
Ignition Relay
87
85
KR29
A/C
Compressor
Clutch Relay
F46UA
10A
87
KR20F
Cooling
Fan Relay
A90
Logic
B+
87A
F11UA
10A
F47UA
7.5A
F8UA
15A
F9UA
7.5A
F10UA
20A
X2 16
(Not Used)
X3
7
6
3
2
1
30
5294
VT/L-BU
5293
VT/L-BU
5292
VT/L-BU
5291
VT/L-BU
5290
VT/L-BU
2368
WH
J111
5294
VT/L-BU
2
5
2
X1
3
2
1
B75C
Multifunction
Intake Air
Sensor
E45
Positive
Crankcase
Ventilation
Heater
K20
Engine
Control
Module
Q85
Cooling
Fan
Clutch
4945133

Power Distribution Schematics (F37UA, F38UA, F40UA, F48UA, F51UA, and F56UA Fuses)

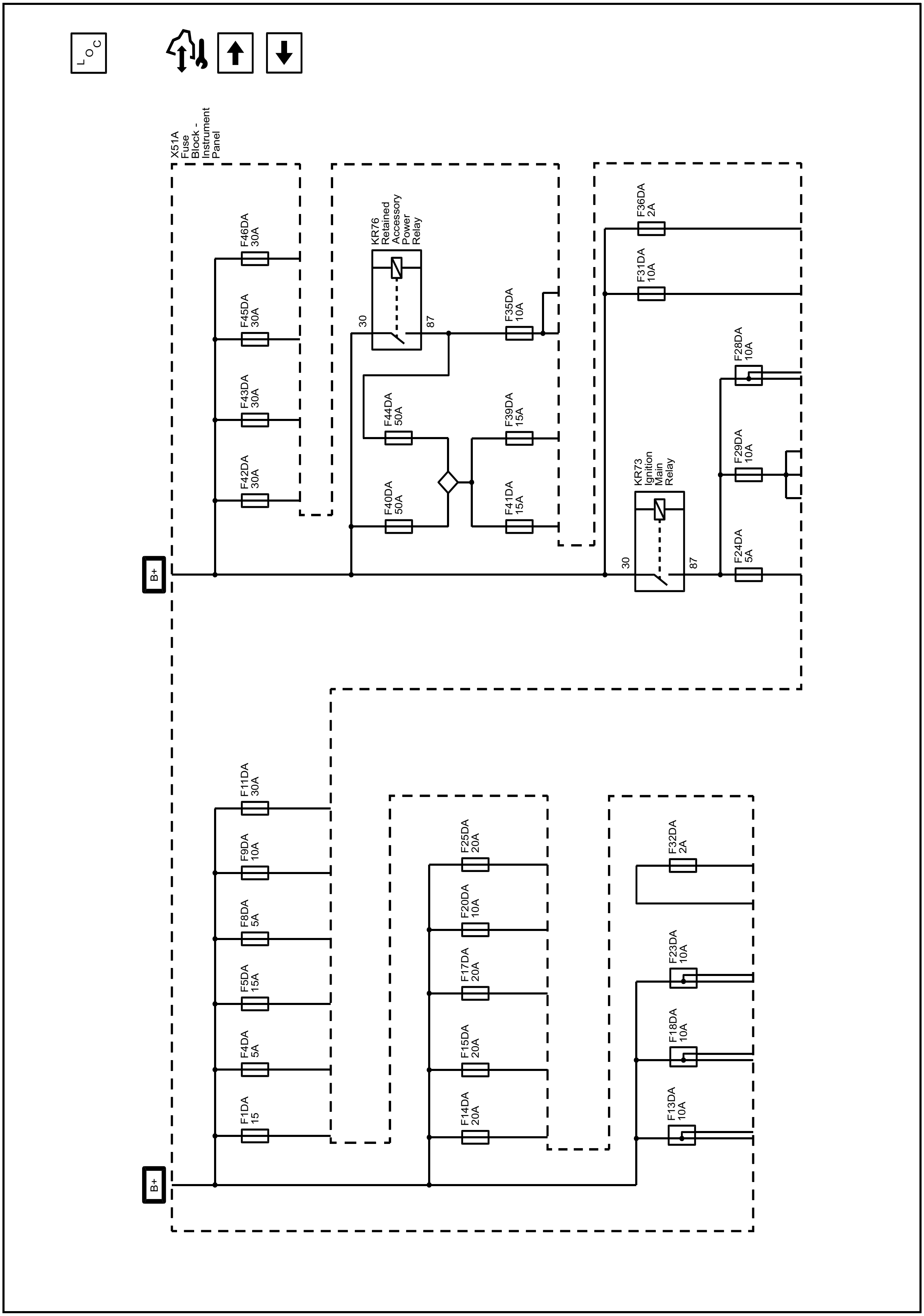

B+
B+ Bus
X50A Fuse Block - Underhood
KR11 Windshield Washer Pump Relay
KR46 Front Fog Lamp Relay
KR3 Horn Relay
KR48 Headlamp High Beam Relay
KR175A Front Differential Lock Actuator High Control Relay
F56UA 15A
F48UA 15A
F51UA 15A
F38UA 10A
F37UA 10A
F40UA 15A
X1
30
31
11
14
13
2
T3U
228 GY/VT
2234 BN/VT
29 BN/GY
711 WH
311 WH
7256 VT/WH
J118
J427
X110
3
X120
3
1
Q9F Differential Lock Actuator - Front
2234 BN/VT
2234 BN/VT
711 BK
311 BK
1
A
A
2
A
A
G24 Windshield Washer Pump
E29LF Fog Lamp - Left Front
E29RF Fog Lamp - Right Front
P13 Horn Assembly
E4E Headlamp - Left High Beam
E4F Headlamp - Right High Beam
E13LA Headlamp Assembly - Left
E13RA Headlamp Assembly - Right
LOC

4945134

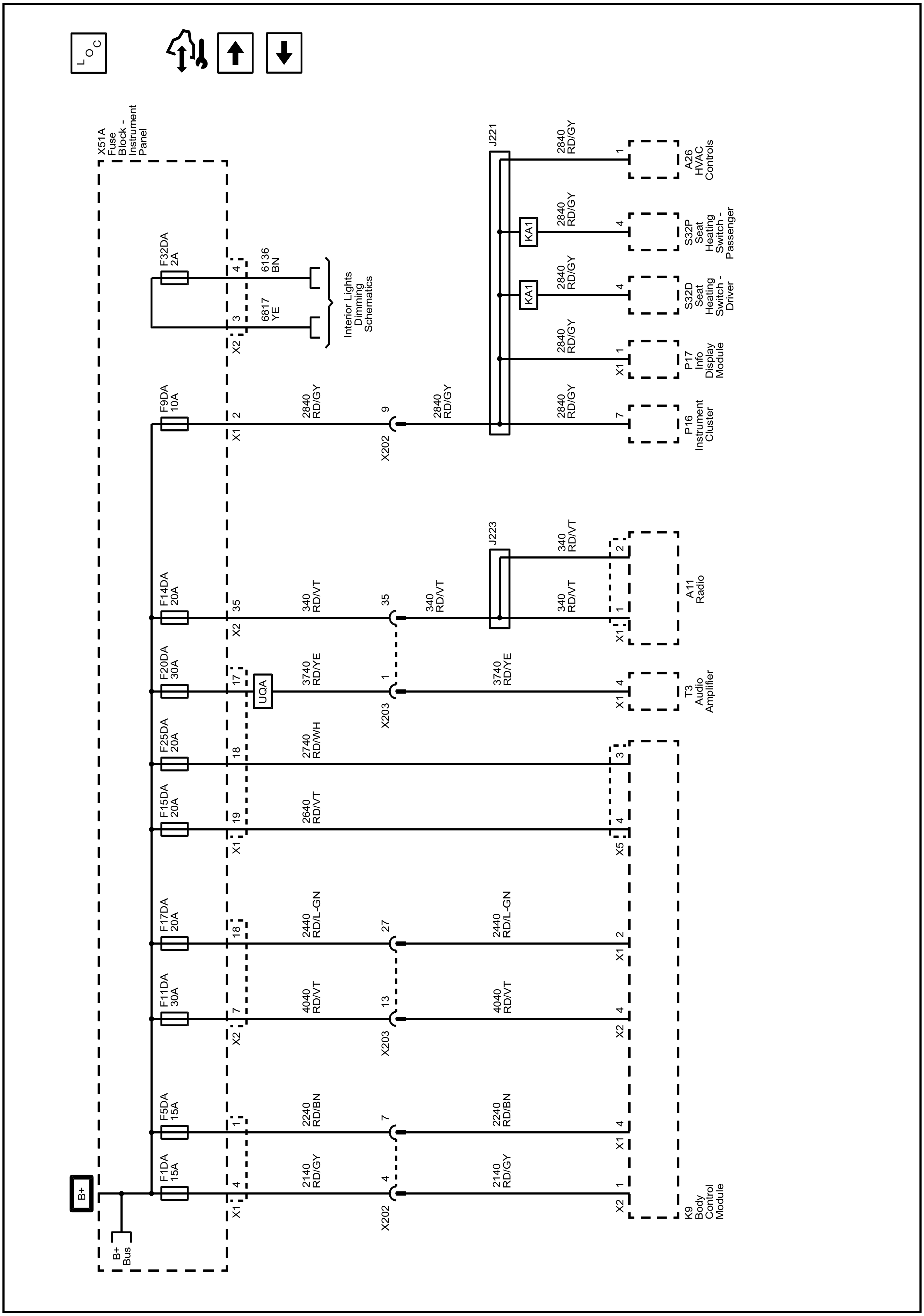
Power Distribution Schematics (F50UA, F64UA, F65UA, and F66UA Fuses)


4945135
L O C
X50A
Fuse Block - Underhood
B+
B+ Bus
KR125
Trailer Park Lamps Relay
86
30
87
87A
F50UA 20A
X1 8
X1 32 (Not Used)
X1 70 (Not Used)
2109 BN
48
X102
39
X106
KR63L
Trailer Stop/Turn Signal Lamp Relay - Left
F65UA 10A
X2 51
1618 YE
5
KR63R
Trailer Stop/Turn Signal Lamp Relay - Right
F66UA 10A
30
X1 10 (Not Used)
1619 L-GN
4
KR61
Trailer Backup Lamps Relay
F64UA 10A
X2 52
X2 50 (Not Used)
1624 GY
3
J412 (8S3)
8S3
Audible Warnings Schematics
Z82
-Z82
W8
Blunt Cut - Trailer Provision
A
D
G
F
X88
Trailer Connector

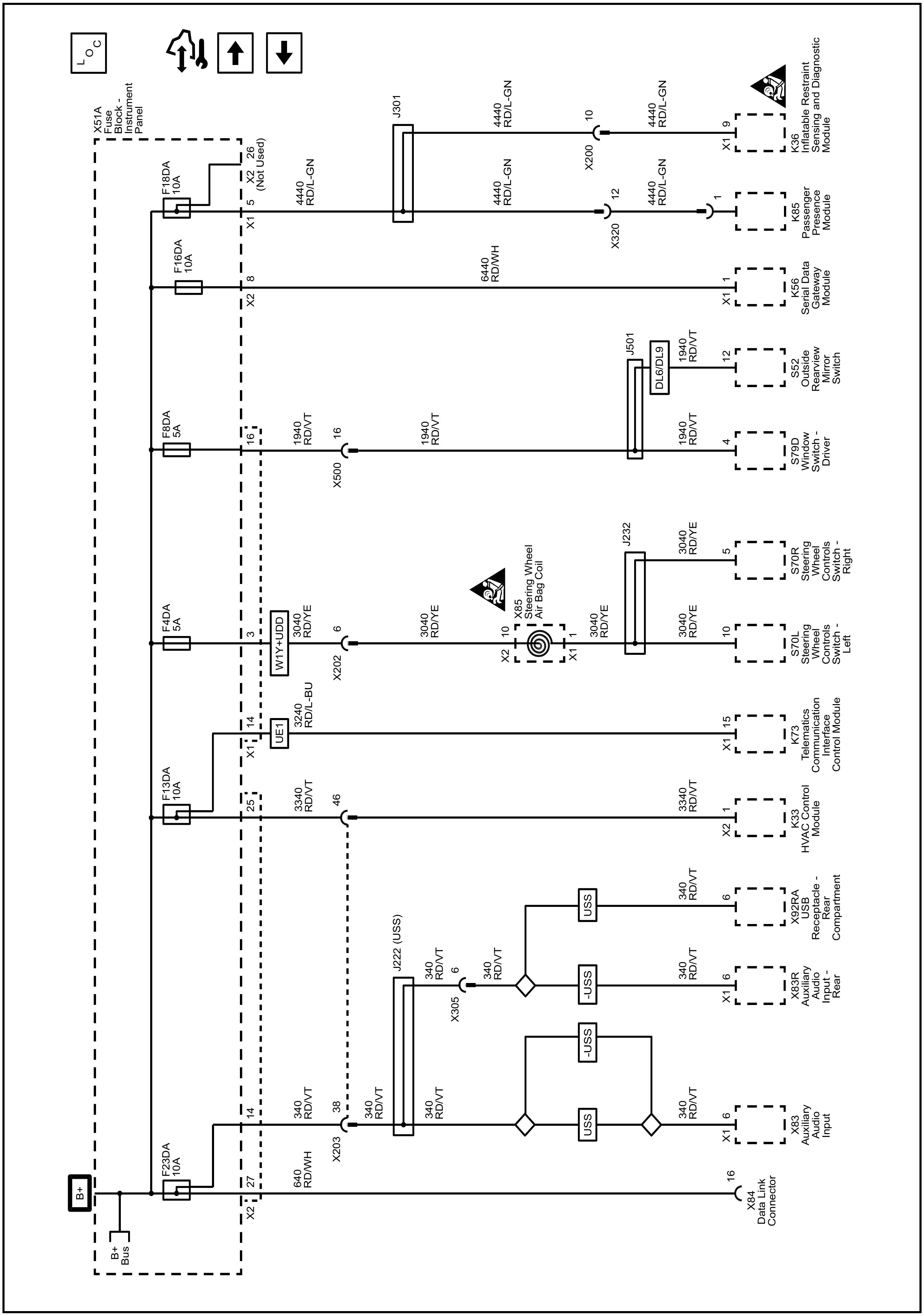
Power Distribution Schematics (X51A Fuse Block - Instrument Panel Bussing)


4945136
L O C
X51A Fuse Block - Instrument Panel
F46DA 30A
F45DA 30A
F43DA 30A
F42DA 30A
KR76 Retained Accessory Power Relay
30
87
F35DA 10A
F44DA 50A
F39DA 15A
F40DA 50A
F41DA 15A
F36DA 2A
F31DA 10A
F28DA 10A
F29DA 10A
KR73 Ignition Main Relay
30
87
F24DA 5A
B+
F11DA 30A
F9DA 10A
F8DA 5A
F5DA 15A
F4DA 5A
F1DA 15
F25DA 20A
F20DA 10A
F17DA 20A
F15DA 20A
F14DA 20A
F32DA 2A
F23DA 10A
F18DA 10A
F13DA 10A
B+

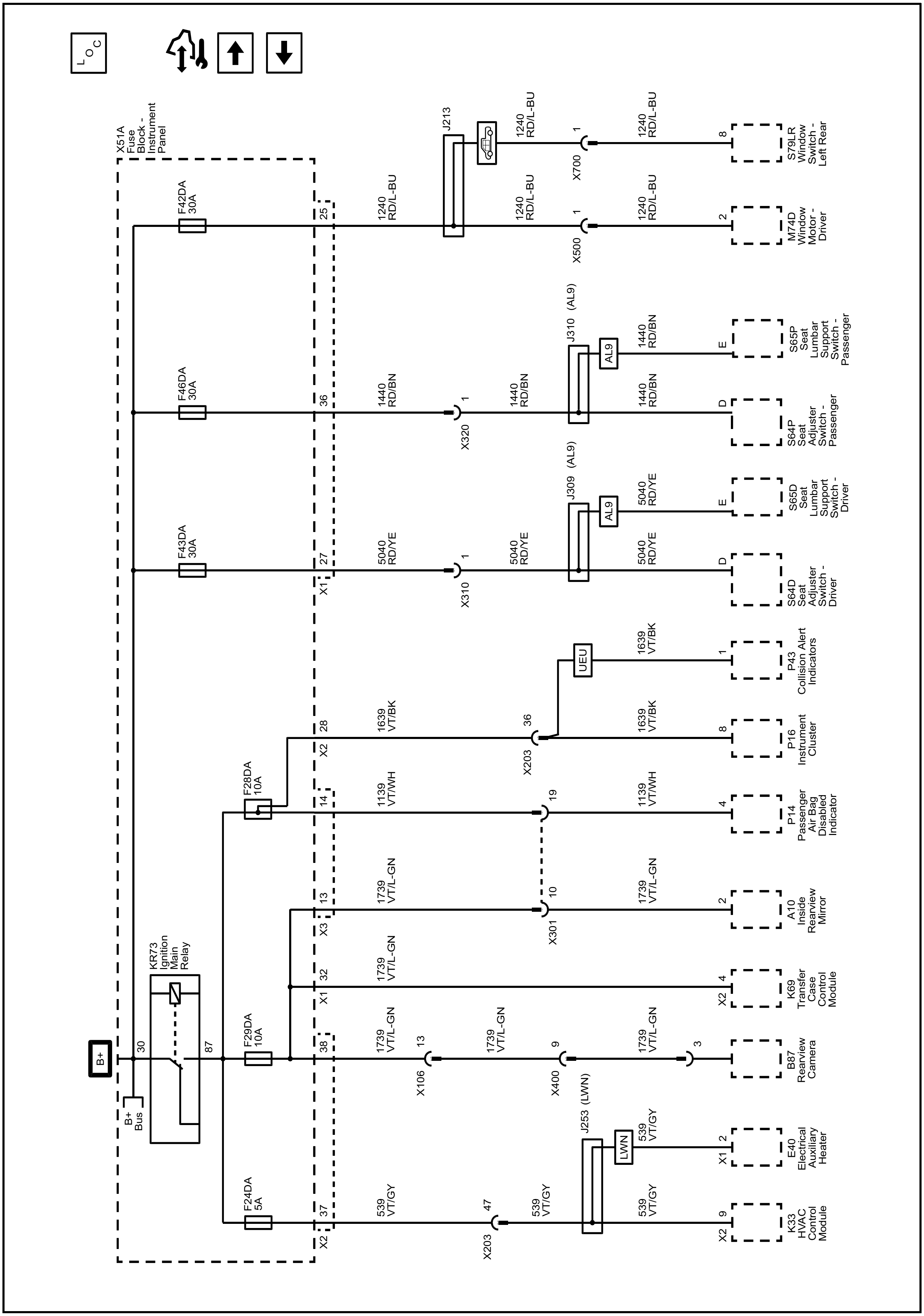
Power Distribution Schematics (F1DA, F5DA, F9DA, F11DA, F14DA, F15DA, F17DA, F20DA, F25DA, and F32DA Fuses)


4945137
L O C
X51A Fuse Block - Instrument Panel
B+
B+ Bus
F1DA 15A
F5DA 15A
F11DA 30A
F17DA 20A
F15DA 20A
F25DA 20A
F20DA 30A
F14DA 20A
F9DA 10A
F32DA 2A
X1 4
1
X2 7
18
X1 19
18
17
X2 35
X1 2
X2 3
4
UQA
2140 RD/GY
2240 RD/BN
4040 RD/VT
2440 RD/L-GN
2640 RD/VT
2740 RD/WH
3740 RD/YE
340 RD/VT
2840 RD/GY
6817 YE
6136 BN
Interior Lights Dimming Schematics
X202 4
7
X203 13
27
X203 1
35
X202 9
J223
J221
KA1
KA1
X2 1
X1 4
X2 4
X1 2
X5 4
3
X1 4
X1 1
2
7
X1 1
4
4
1
K9 Body Control Module
T3 Audio Amplifier
A11 Radio
P16 Instrument Cluster
P17 Info Display Module
S32D Seat Heating Switch - Driver
S32P Seat Heating Switch - Passenger
A26 HVAC Controls

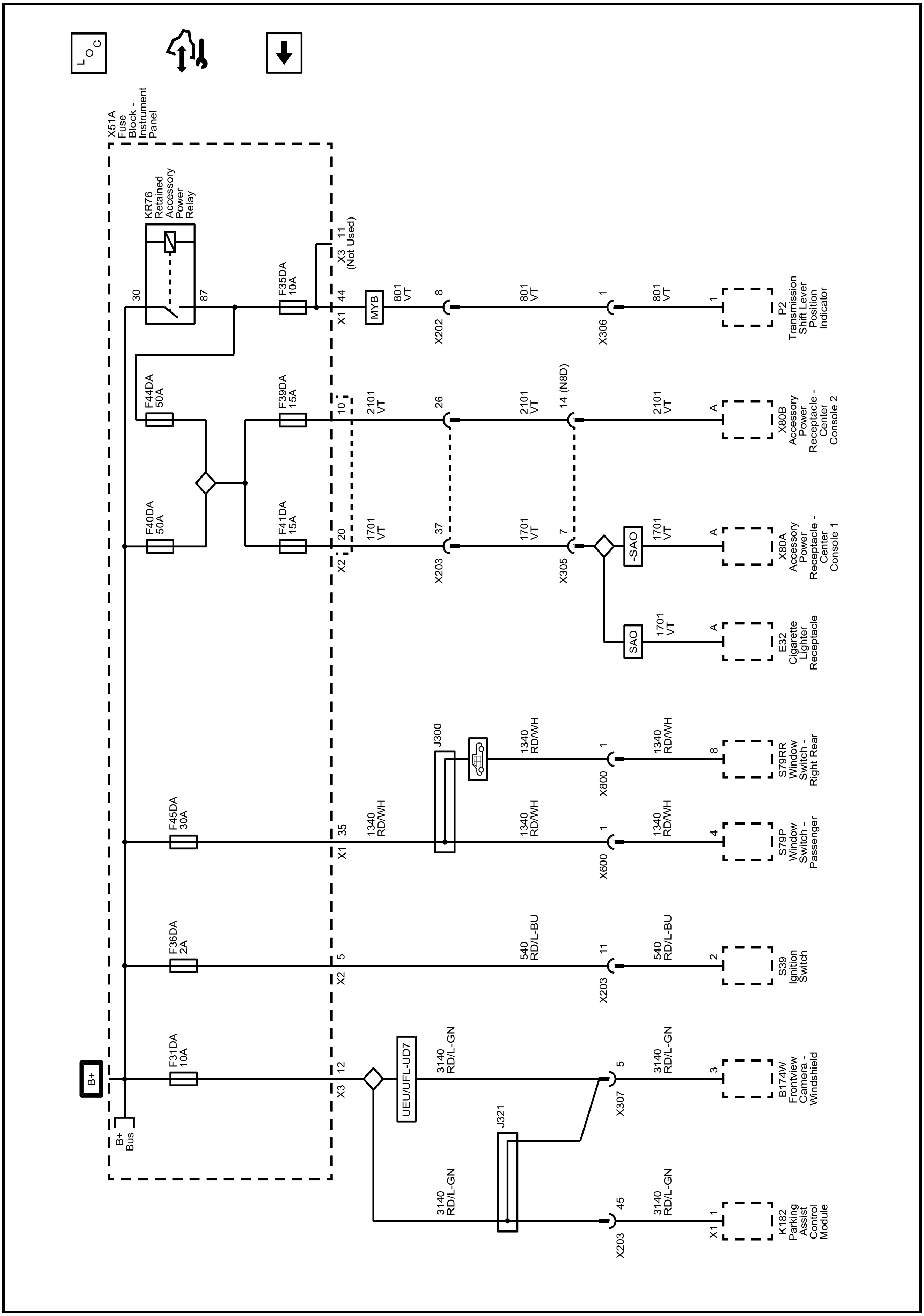
Power Distribution Schematics (F4DA, F8DA, F13DA, F16DA, F18DA, and F23DA Fuses)


4945138
LOC
X51A Fuse Block - Instrument Panel
B+
B+ Bus
F23DA 10A
F13DA 10A
F4DA 5A
F8DA 5A
F16DA 10A
F18DA 10A
X2 27
14
25
X1 14
3
16
X2 8
X1 5
X2 26 (Not Used)
640 RD/WH
340 RD/VT
3340 RD/VT
UE1
3240 RD/L-BU
W1Y+UDD
3040 RD/YE
1940 RD/VT
6440 RD/WH
4440 RD/L-GN
X203 38
46
X202 6
X500 16
J222 (USS)
340 RD/VT
X305 6
USS
-USS
3040 RD/YE
X2 10
X85 Steering Wheel Air Bag Coil
X1 1
J232
J501
DL6/DL9
J301
X320 12
X200 10
1
16
X84 Data Link Connector
X1 6
X83 Auxiliary Audio Input
X1 6
X83R Auxiliary Audio Input - Rear
6
X92RA USB Receptacle - Rear Compartment
X2 1
K33 HVAC Control Module
X1 15
K73 Telematics Communication Interface Control Module
10
S70L Steering Wheel Controls Switch - Left
5
S70R Steering Wheel Controls Switch - Right
4
S79D Window Switch - Driver
12
S52 Outside Rearview Mirror Switch
X1 1
K56 Serial Data Gateway Module
1
K85 Passenger Presence Module
X1 9
K36 Inflatable Restraint Sensing and Diagnostic Module

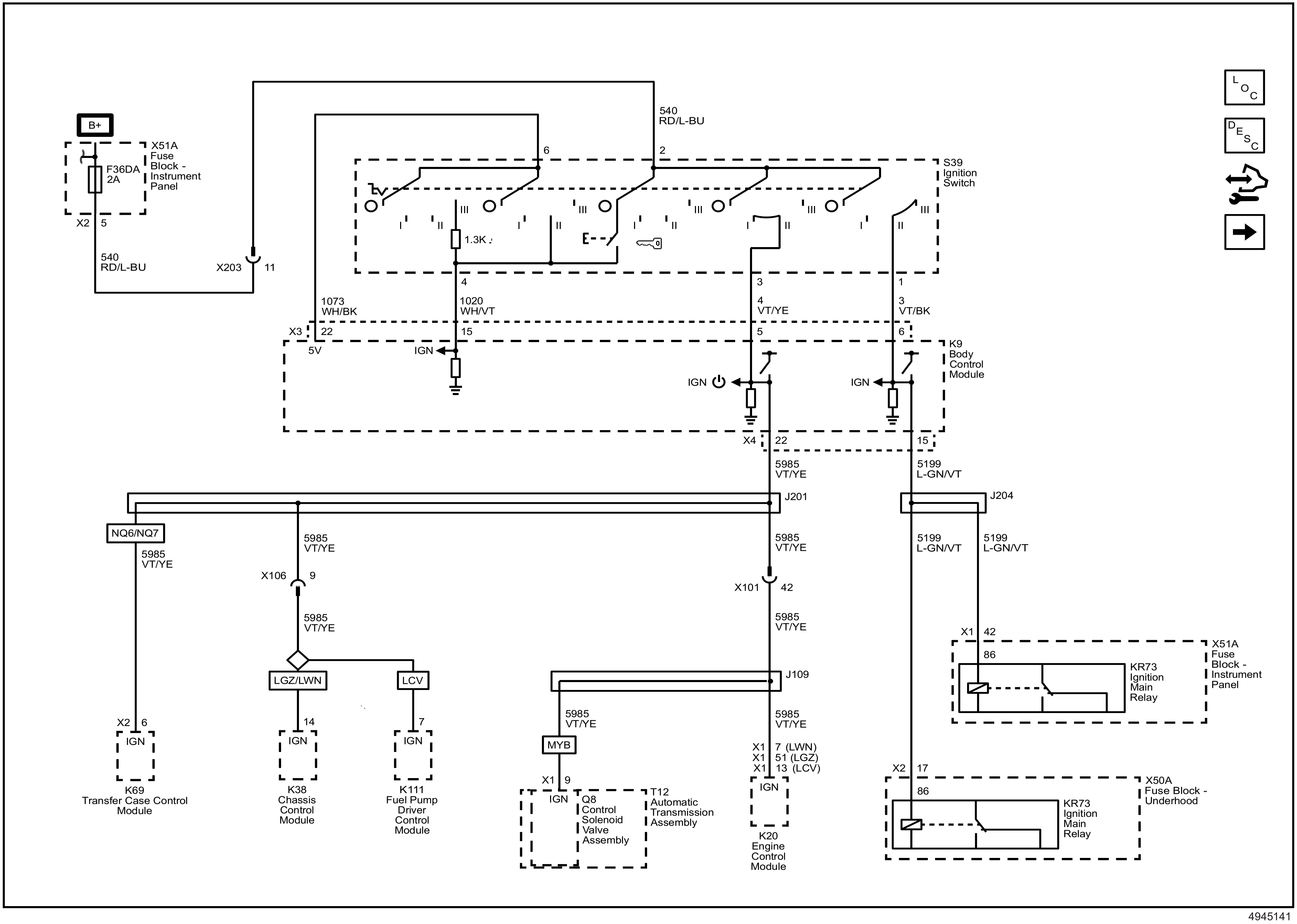
Power Distribution Schematics (F24DA, F28DA, F29DA, F42DA, F43DA, and F46DA Fuses)


4945139
LOC
B+
B+ Bus
X51A Fuse Block - Instrument Panel
KR73 Ignition Main Relay
30
87
F24DA 5A
F29DA 10A
F28DA 10A
F43DA 30A
F46DA 30A
F42DA 30A
X2 37
38
X1 32
X3 13
14
X2 28
X1 27
36
25
539 VT/GY
1739 VT/L-GN
1139 VT/WH
1639 VT/BK
5040 RD/YE
1440 RD/BN
1240 RD/L-BU
X203 47
X106 13
X400 9
X301 10
19
X203 36
X310 1
X320 1
X500 1
X700 1
J253 (LWN)
LWN
J309 (AL9)
J310 (AL9)
AL9
UEU
J213
3
X1 2
X2 9
X2 4
2
4
8
1
D
E
K33 HVAC Control Module
E40 Electrical Auxiliary Heater
B87 Rearview Camera
K69 Transfer Case Control Module
A10 Inside Rearview Mirror
P14 Passenger Air Bag Disabled Indicator
P16 Instrument Cluster
P43 Collision Alert Indicators
S64D Seat Adjuster Switch - Driver
S65D Seat Lumbar Support Switch - Driver
S64P Seat Adjuster Switch - Passenger
S65P Seat Lumbar Support Switch - Passenger
M74D Window Motor - Driver
S79LR Window Switch - Left Rear

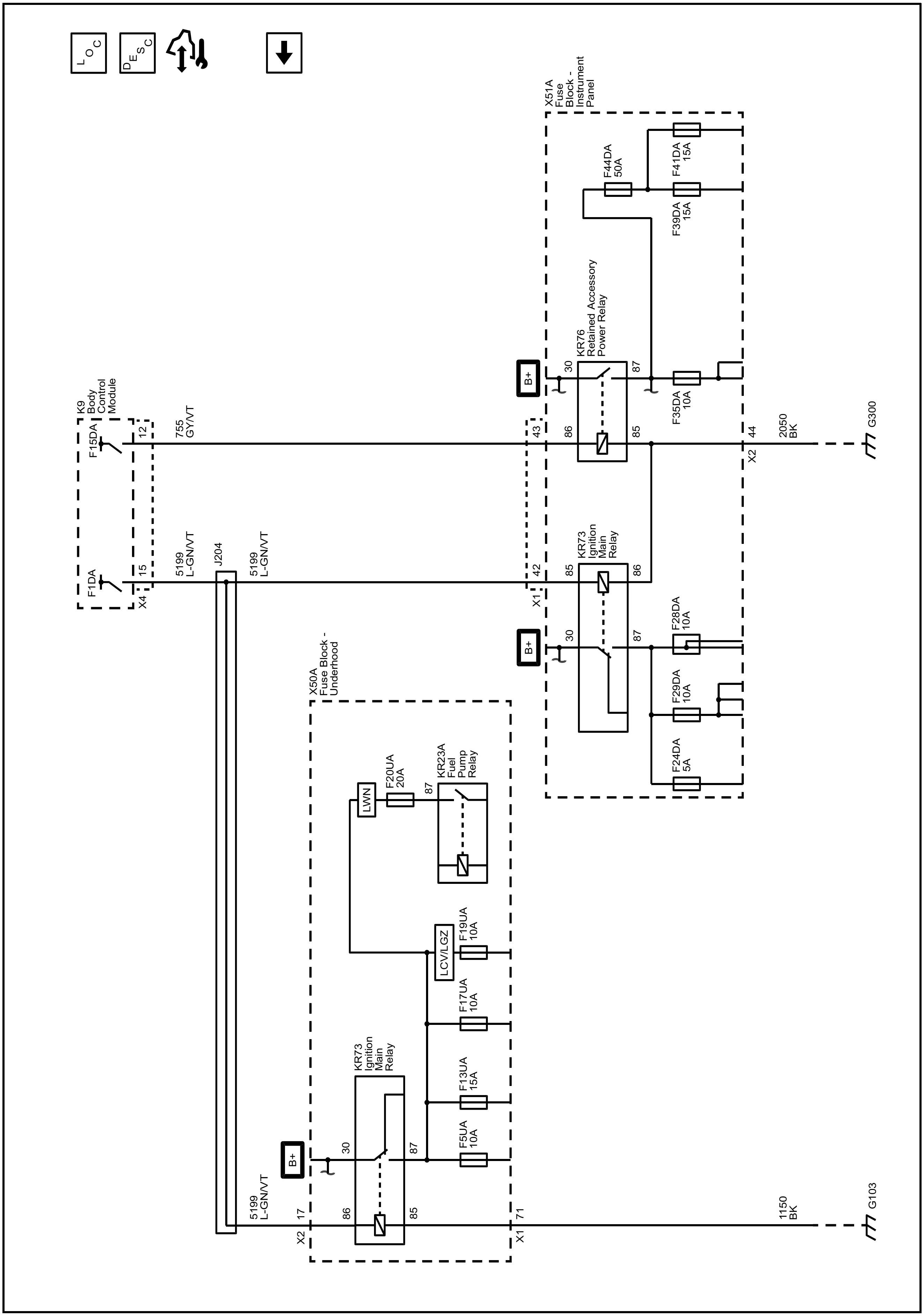
Power Distribution Schematics (F31DA, F35DA, F36DA, F39DA, F40DA, F41DA, F44DA, and F45DA Fuses)


4945140
L O C
X51A Fuse Block - Instrument Panel
KR76 Retained Accessory Power Relay
30
87
B+
B+ Bus
F35DA 10A
F44DA 50A
F39DA 15A
F40DA 50A
F41DA 15A
F45DA 30A
F36DA 2A
F31DA 10A
X3 11 (Not Used)
X1 44
X2 10
X2 20
X1 35
X2 5
X3 12
MYB
801 VT
8
X202
1
X306
P2 Transmission Shift Lever Position Indicator
2101 VT
26
14 (N8D)
A
X80B Accessory Power Receptacle - Center Console 2
1701 VT
37
X203
7
X305
-SAO
SAO
X80A Accessory Power Receptacle - Center Console 1
E32 Cigarette Lighter Receptacle
J300
1340 RD/WH
X800
8
S79RR Window Switch - Right Rear
X600
4
S79P Window Switch - Passenger
540 RD/L-BU
11
2
S39 Ignition Switch
UEU/UFL-UD7
3140 RD/L-GN
5
X307
3
B174W Frontview Camera - Windshield
J321
45
X1 1
K182 Parking Assist Control Module

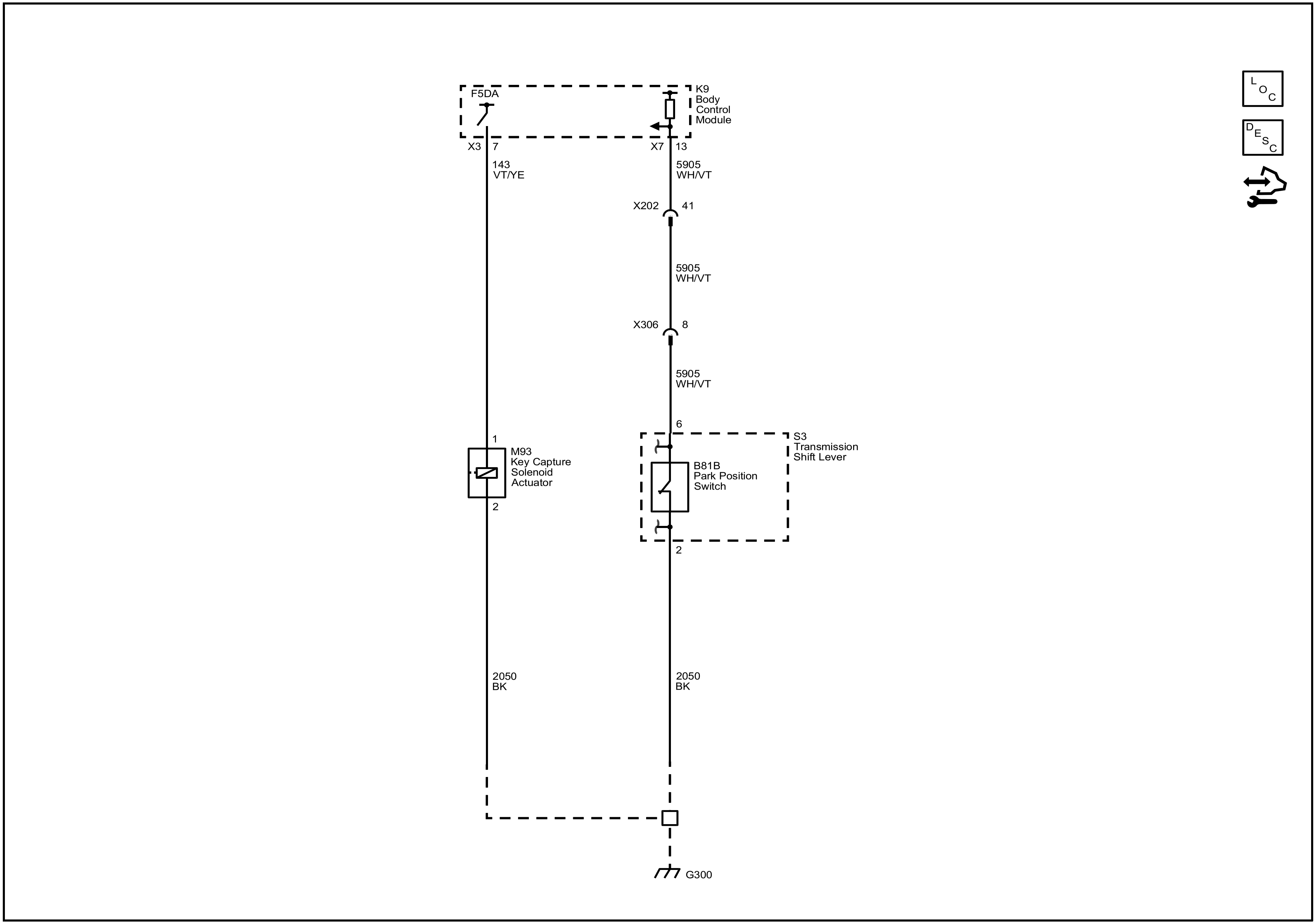
Power Moding Schematics (Ignition Switch)


B+
X51A Fuse Block - Instrument Panel
F36DA 2A
X2 5
540 RD/L-BU
X203 11
540 RD/L-BU
2
6
S39 Ignition Switch
1.3K
4
3
1
1073 WH/BK
1020 WH/VT
4 VT/YE
3 VT/BK
X3 22
15
5
6
5V
IGN
K9 Body Control Module
X4 22
15
5985 VT/YE
5199 L-GN/VT
J201
J204
NQ6/NQ7
5985 VT/YE
X106 9
X101 42
5199 L-GN/VT
X1 42
86
KR73 Ignition Main Relay
X51A Fuse Block - Instrument Panel
LGZ/LWN
LCV
J109
MYB
X1 7 (LWN)
X1 51 (LGZ)
X1 13 (LCV)
X2 17
86
KR73 Ignition Main Relay
X50A Fuse Block - Underhood
X2 6
14
7
X1 9
Q8 Control Solenoid Valve Assembly
T12 Automatic Transmission Assembly
K69 Transfer Case Control Module
K38 Chassis Control Module
K111 Fuel Pump Driver Control Module
K20 Engine Control Module
4945141

Power Moding Schematics (KR73 Ignition Main Relays and Accessory Power)

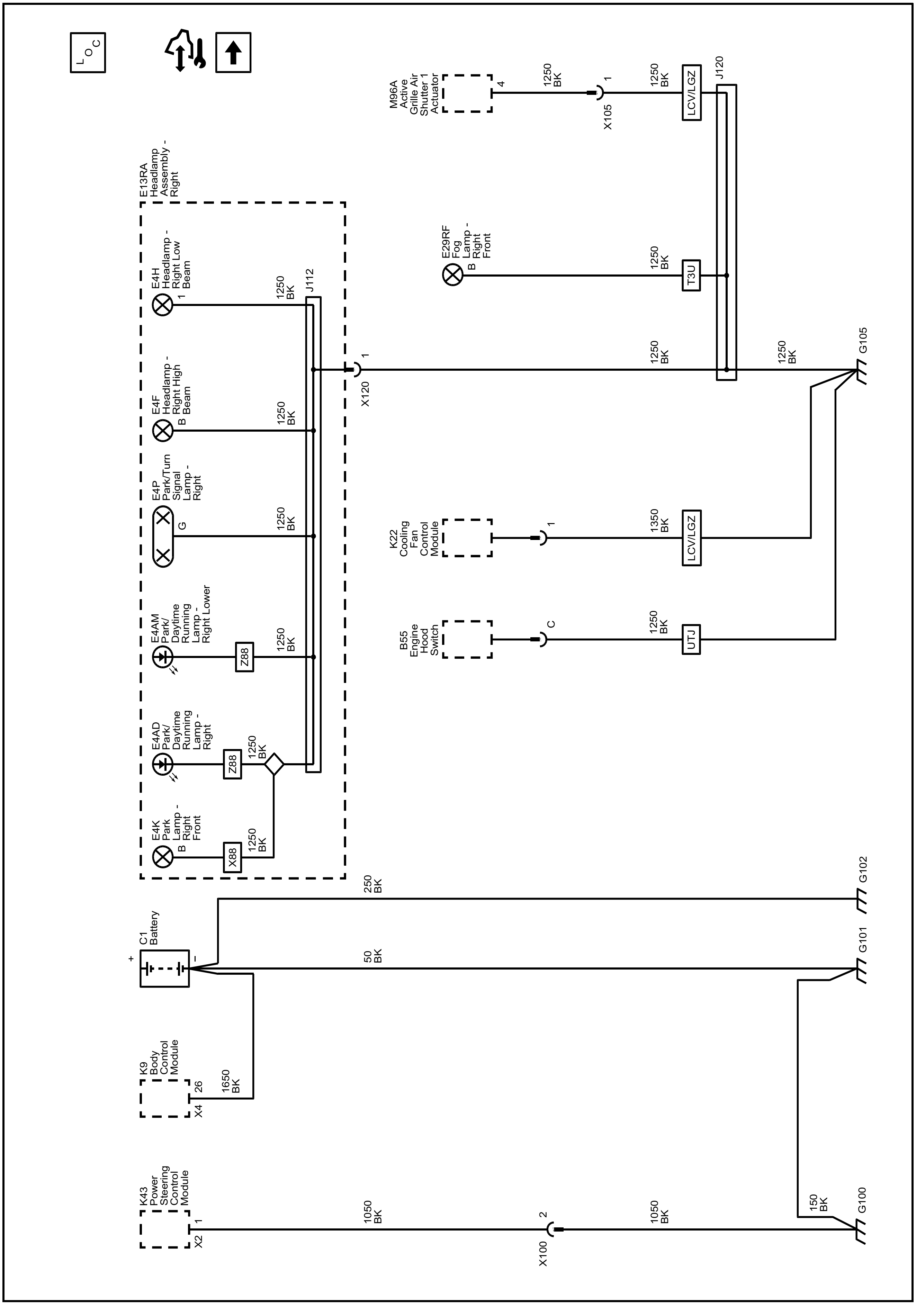

4945142
LOC
DESC
K9 Body Control Module
F15DA
F1DA
X4
12
15
755 GY/VT
5199 L-GN/VT
J204
5199 L-GN/VT
X1
42
43
B+
30
86
85
87
KR76 Retained Accessory Power Relay
KR73 Ignition Main Relay
X51A Fuse Block - Instrument Panel
F44DA 50A
F41DA 15A
F39DA 15A
F35DA 10A
F28DA 10A
F29DA 10A
F24DA 5A
X2
44
2050 BK
G300
X50A Fuse Block - Underhood
LWN
F20UA 20A
KR23A Fuel Pump Relay
LCV/LGZ
F19UA 10A
F17UA 10A
F13UA 15A
F5UA 10A
KR73 Ignition Main Relay
5199 L-GN/VT
X2
17
X1
71
1150 BK
G103

Ignition Lock Schematics (Key Capture, and Park Position Switch)

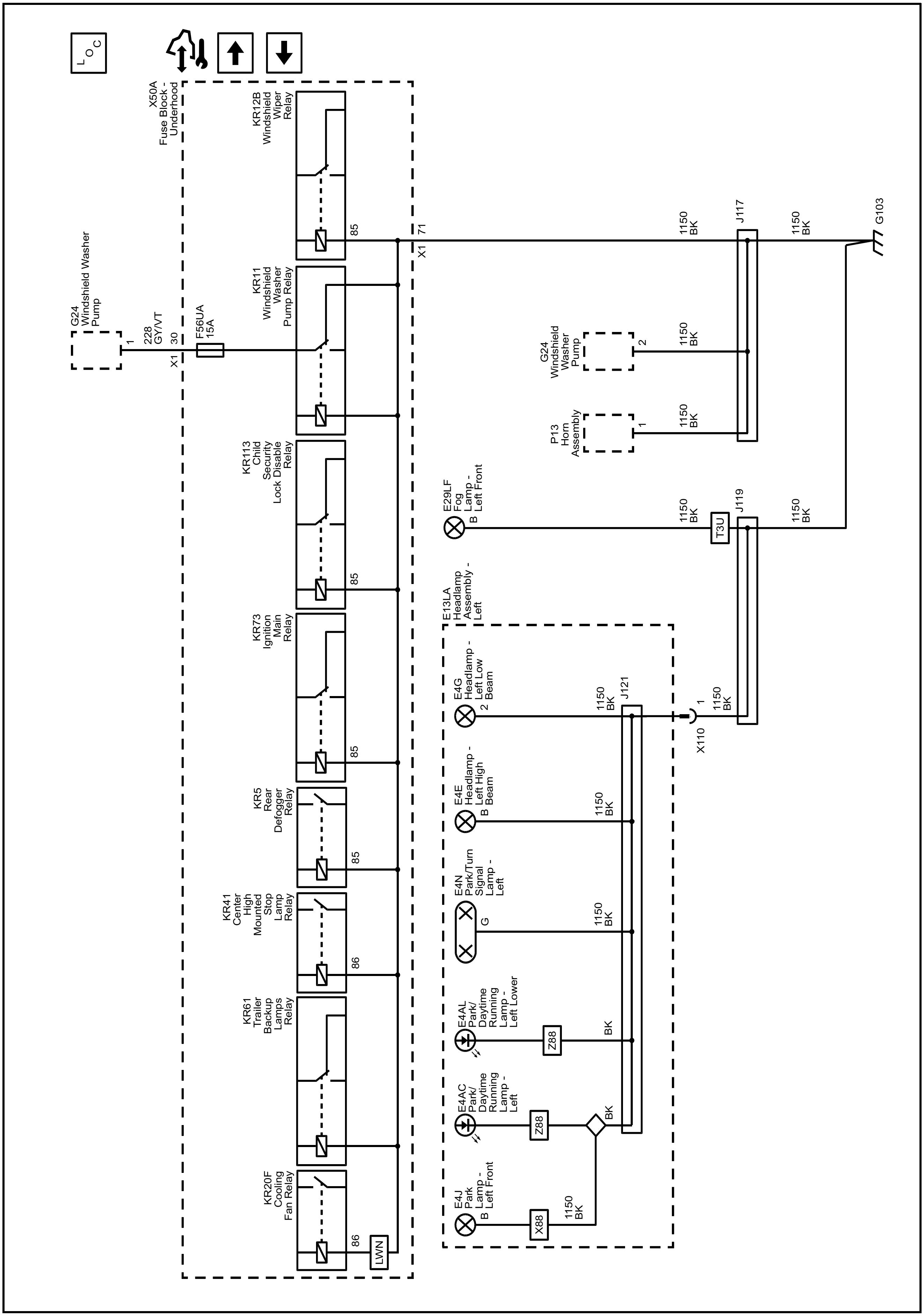

LOC
DESC
F5DA
K9
Body
Control
Module
X3 7
X7 13
143
VT/YE
5905
WH/VT
X202 41
5905
WH/VT
X306 8
5905
WH/VT
6
S3
Transmission
Shift Lever
1
M93
Key Capture
Solenoid
Actuator
2
B81B
Park Position
Switch
2
2050
BK
2050
BK
G300

4945143

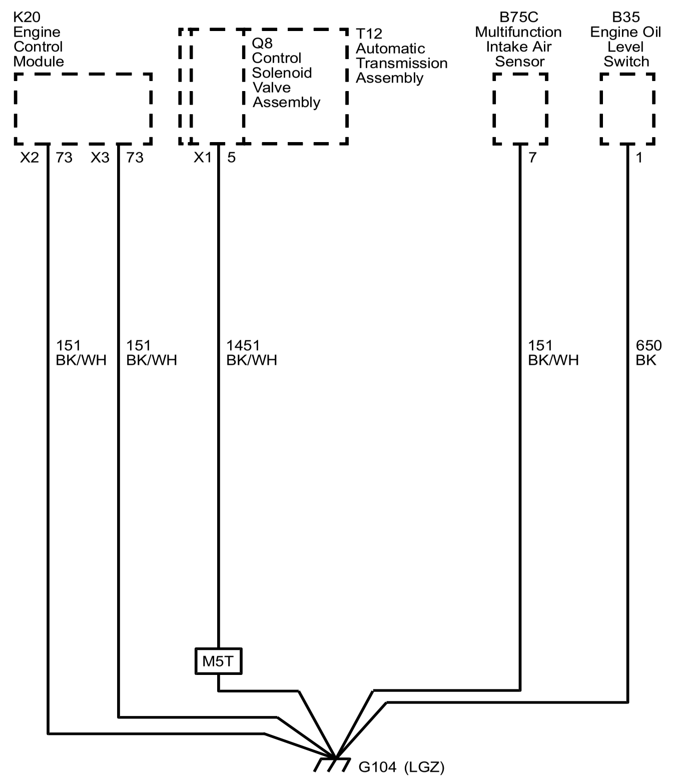
Ground Distribution Schematics (G100, G101, G102, and G105)


4945144
LOC
K43 Power Steering Control Module
X2 1
1050 BK
2
X100
1050 BK
150 BK
G100
K9 Body Control Module
X4 26
1650 BK
C1 Battery
+
–
50 BK
G101
250 BK
G102
E13RA Headlamp Assembly - Right
E4K Park Lamp - Right Front
B
X88
1250 BK
E4AD Park/ Daytime Running Lamp - Right
Z88
1250 BK
E4AM Park/ Daytime Running Lamp - Right Lower
Z88
1250 BK
E4P Park/Turn Signal Lamp - Right
G
1250 BK
E4F Headlamp - Right High Beam
B
1250 BK
E4H Headlamp - Right Low Beam
1
1250 BK
J112
X120
1
1250 BK
1250 BK
G105
B55 Engine Hood Switch
C
1250 BK
UTJ
K22 Cooling Fan Control Module
1
1350 BK
LCV/LGZ
E29RF Fog Lamp - Right Front
B
1250 BK
T3U
M96A Active Grille Air Shutter 1 Actuator
4
1250 BK
1
X105
1250 BK
LCV/LGZ
J120

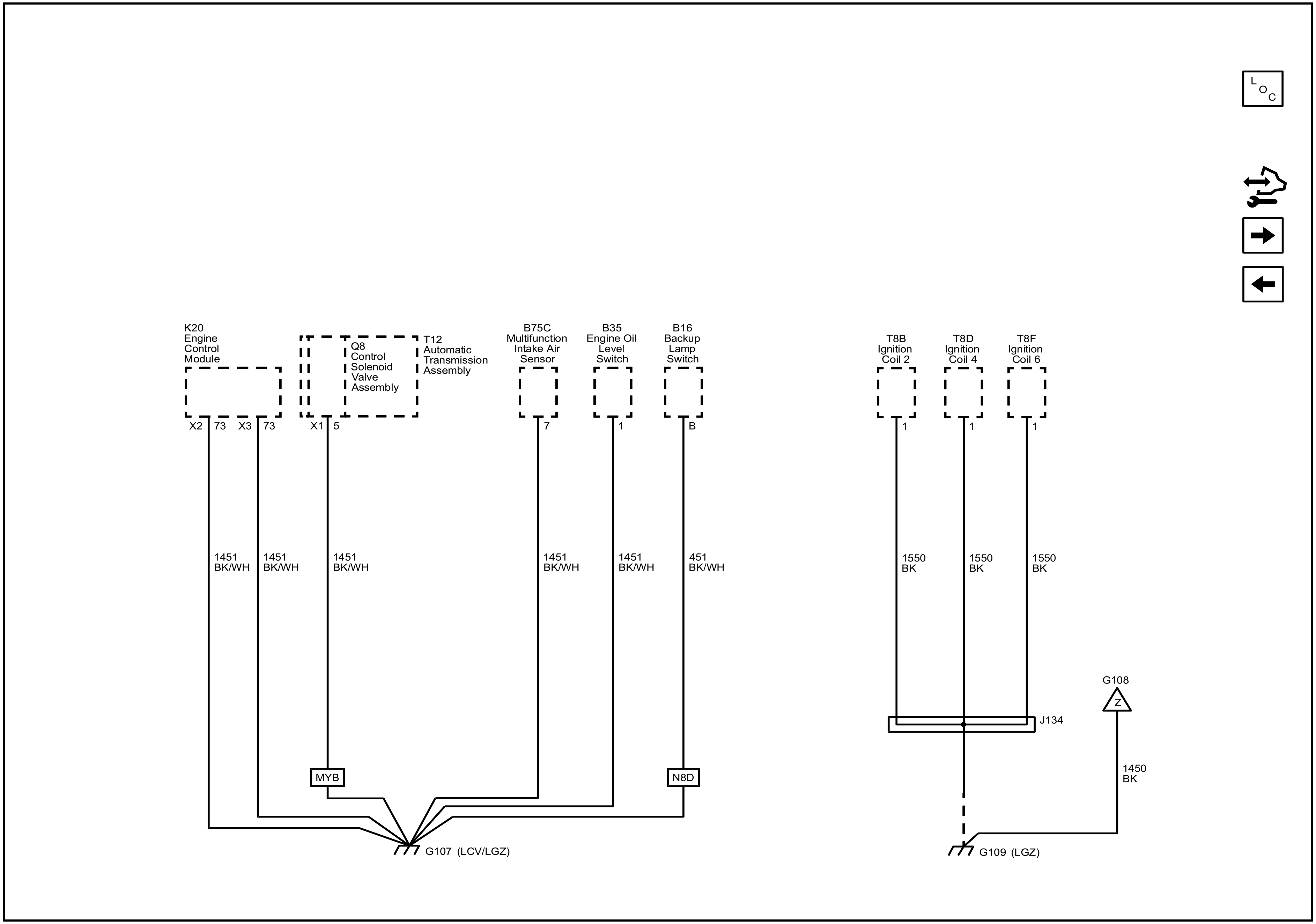
Ground Distribution Schematics (G103)


4945145
LOC
X50A
Fuse Block -
Underhood
KR12B
Windshield
Wiper
Relay
85
X1 71
KR11
Windshield
Washer
Pump Relay
G24
Windshield Washer
Pump
1
228
GY/VT
X1 30
F56UA
15A
KR113
Child
Security
Lock Disable
Relay
85
KR73
Ignition
Main
Relay
85
KR5
Rear
Defogger
Relay
85
KR41
Center
High
Mounted
Stop
Lamp
Relay
86
KR61
Trailer
Backup
Lamps
Relay
KR20F
Cooling
Fan Relay
86
LWN
1150
BK
J117
1150
BK
G103
G24
Windshield
Washer
Pump
2
1150
BK
P13
Horn
Assembly
1
1150
BK
E29LF
Fog
Lamp -
Left Front
B
1150
BK
T3U
J119
1150
BK
E13LA
Headlamp
Assembly -
Left
E4G
Headlamp -
Left Low
Beam
2
1150
BK
J121
X110
1
1150
BK
E4E
Headlamp -
Left High
Beam
B
1150
BK
E4N
Park/Turn
Signal
Lamp -
Left
G
1150
BK
E4AL
Park/
Daytime
Running
Lamp -
Left Lower
Z88
BK
E4AC
Park/
Daytime
Running
Lamp -
Left
Z88
BK
E4J
Park
Lamp -
Left Front
B
X88
1150
BK

Ground Distribution Schematics (G104 (LGZ))

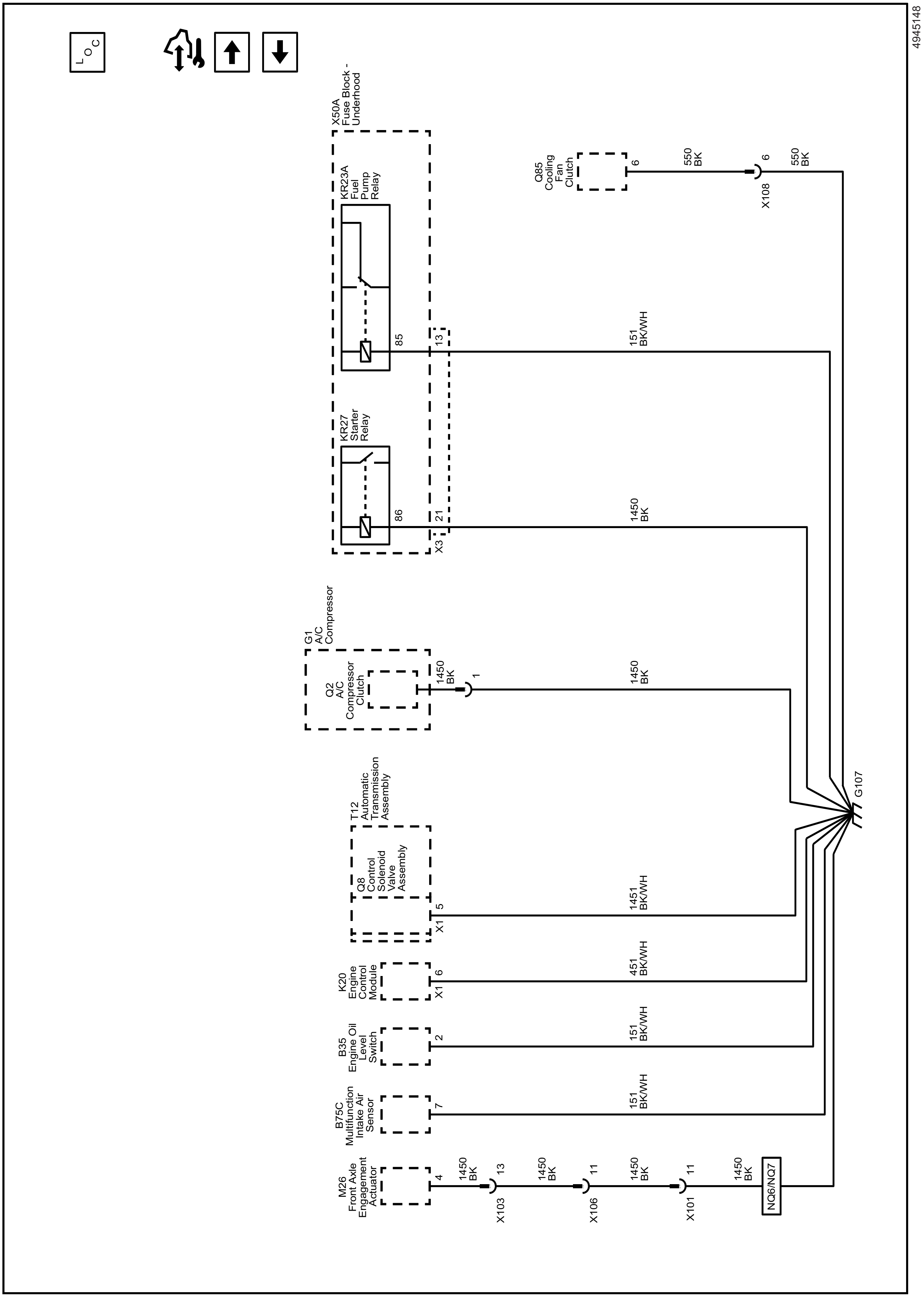

K20
Engine
Control
Module
X2
73
X3
73
Q8
Control
Solenoid
Valve
Assembly
T12
Automatic
Transmission
Assembly
X1
5
B75C
Multifunction
Intake Air
Sensor
7
B35
Engine Oil
Level
Switch
1
151
BK/WH
151
BK/WH
1451
BK/WH
151
BK/WH
650
BK
M5T
G104 (LGZ)
4945146

Ground Distribution Schematics (G107 (LCV/LGZ) and G109 (LGZ))

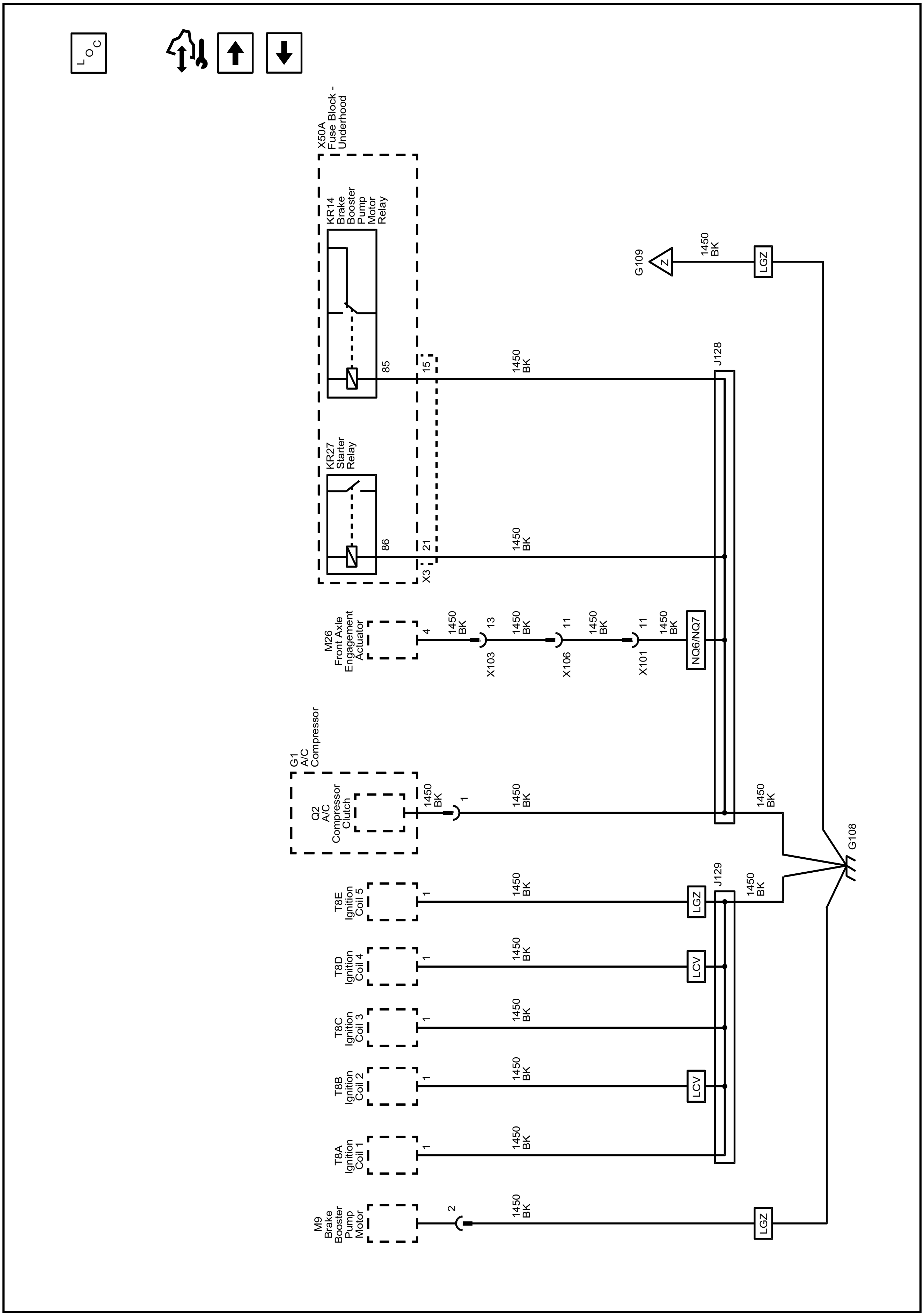

K20
Engine
Control
Module
X2 73
X3 73
Q8
Control
Solenoid
Valve
Assembly
T12
Automatic
Transmission
Assembly
X1 5
B75C
Multifunction
Intake Air
Sensor
7
B35
Engine Oil
Level
Switch
1
B16
Backup
Lamp
Switch
B
T8B
Ignition
Coil 2
1
T8D
Ignition
Coil 4
1
T8F
Ignition
Coil 6
1
1451
BK/WH
1451
BK/WH
1451
BK/WH
1451
BK/WH
1451
BK/WH
451
BK/WH
1550
BK
1550
BK
1550
BK
MYB
N8D
J134
G108
Z
1450
BK
G107 (LCV/LGZ)
G109 (LGZ)

4945147

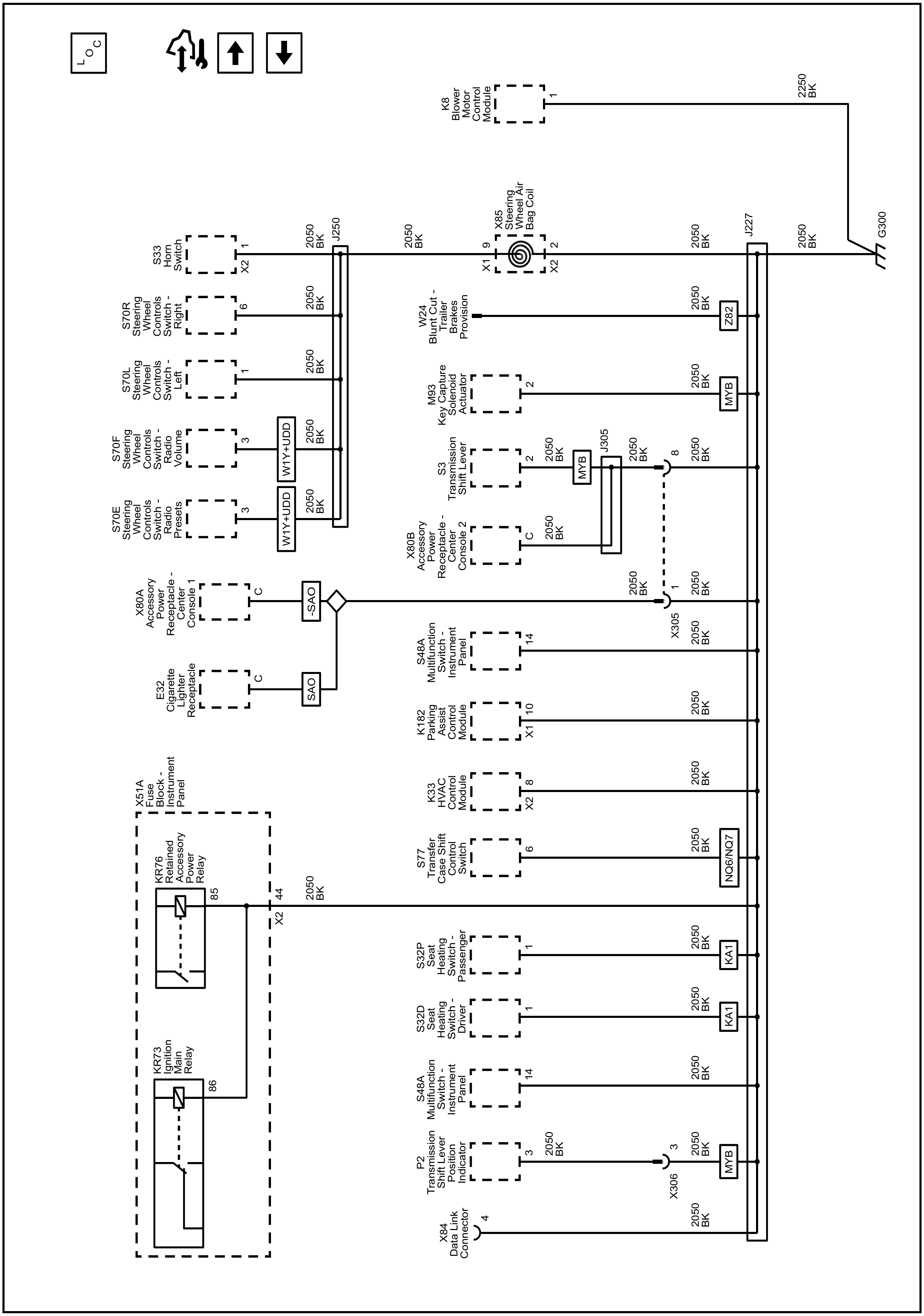
Ground Distribution Schematics (G107 (LWN))


4945148
LOC
X50A
Fuse Block - Underhood
KR23A
Fuel Pump Relay
KR27
Starter Relay
85
86
13
21
X3
Q85
Cooling Fan Clutch
6
550
BK
X108
6
550
BK
151
BK/WH
1450
BK
G1
A/C Compressor
Q2
A/C Compressor Clutch
1450
BK
1
1450
BK
G107
T12
Automatic Transmission Assembly
Q8
Control Solenoid Valve Assembly
X1
5
1451
BK/WH
K20
Engine Control Module
X1
6
451
BK/WH
B35
Engine Oil Level Switch
2
151
BK/WH
B75C
Multifunction Intake Air Sensor
7
151
BK/WH
M26
Front Axle Engagement Actuator
4
1450
BK
13
X103
1450
BK
11
X106
1450
BK
11
X101
1450
BK
NQ6/NQ7

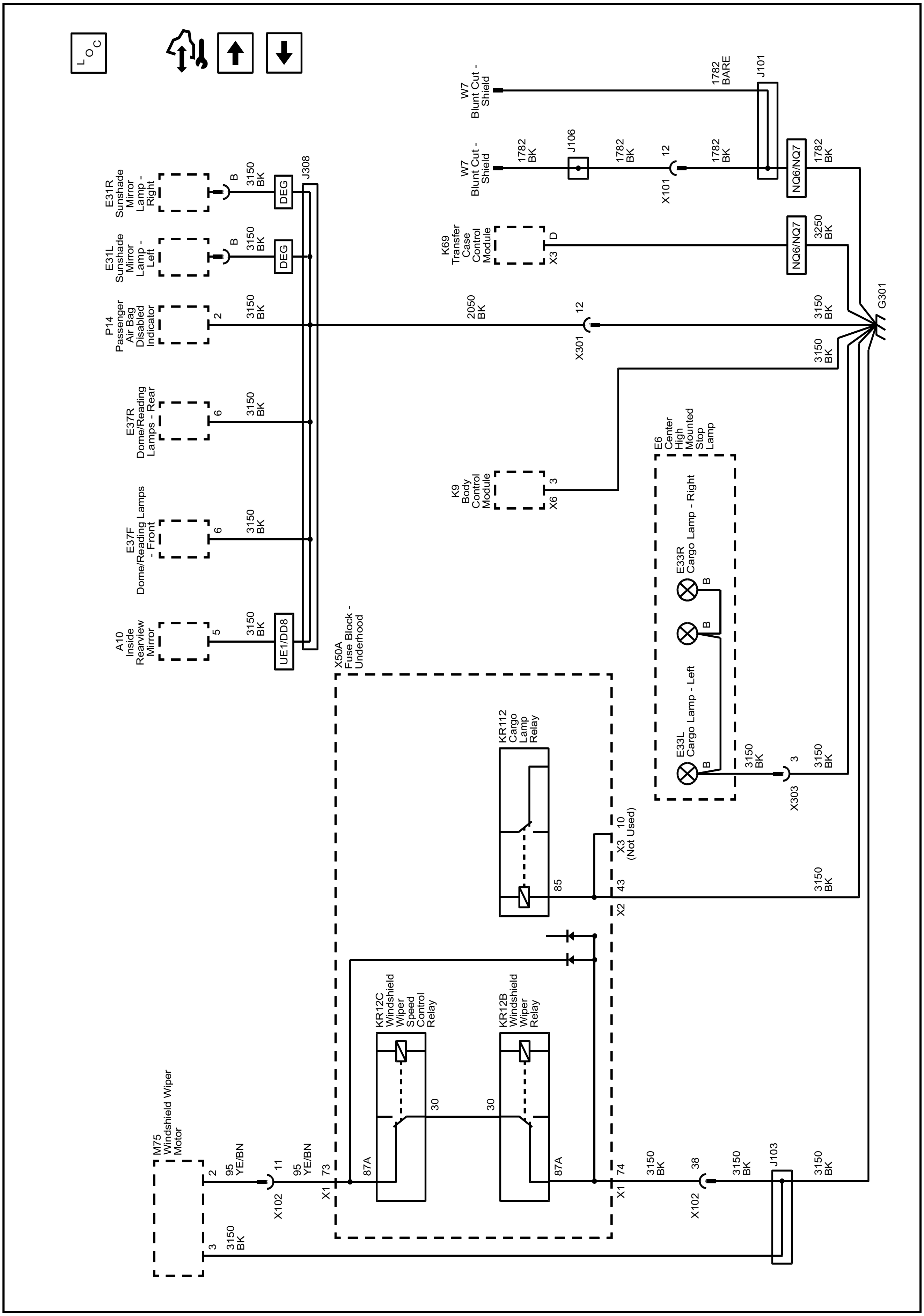
Ground Distribution Schematics (G108 (LCV/LGZ))


4945149
X50A
Fuse Block - Underhood
KR14
Brake Booster Pump Motor Relay
KR27
Starter Relay
85
86
15
21
X3
G109
Z
LGZ
1450
BK
J128
J129
M26
Front Axle Engagement Actuator
4
13
X103
11
X106
11
X101
NQ6/NQ7
G1
A/C Compressor
Q2
A/C Compressor Clutch
1
G108
T8E
Ignition Coil 5
T8D
Ignition Coil 4
T8C
Ignition Coil 3
T8B
Ignition Coil 2
T8A
Ignition Coil 1
LCV
M9
Brake Booster Pump Motor
2

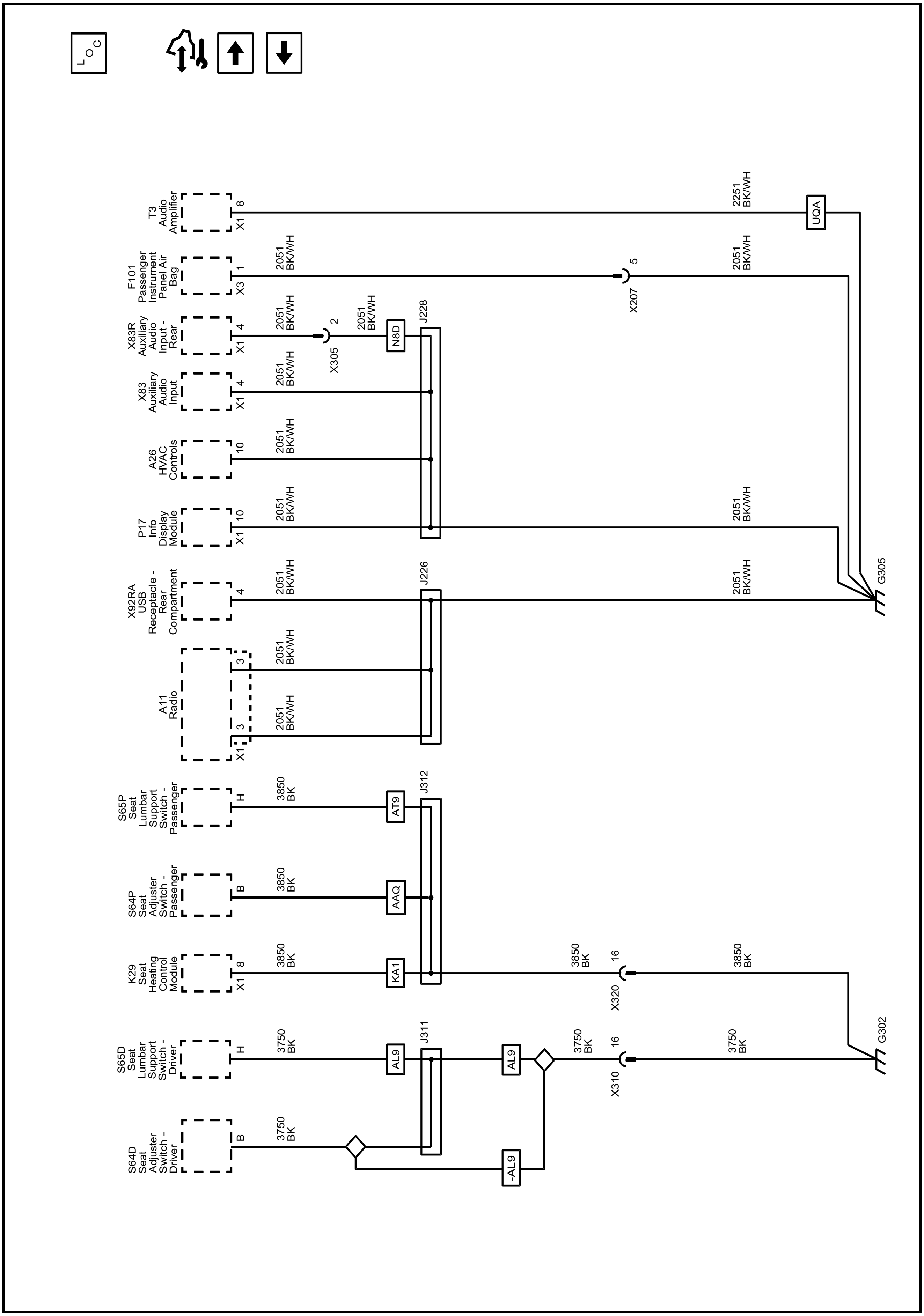
Ground Distribution Schematics (G300)


4945150
K8 Blower Motor Control Module
1
2250 BK
G300
S33 Horn Switch
X2 1
2050 BK
J250
X85 Steering Wheel Air Bag Coil
X1 9
X2 2
J227
S70R Steering Wheel Controls Switch - Right
6
W24 Blunt Cut - Trailer Brakes Provision
Z82
S70L Steering Wheel Controls Switch - Left
1
M93 Key Capture Solenoid Actuator
2
MYB
S70F Steering Wheel Controls Switch - Radio Volume
3
W1Y+UDD
S3 Transmission Shift Lever
2
MYB
J305
8
S70E Steering Wheel Controls Switch - Radio Presets
3
W1Y+UDD
X80B Accessory Power Receptacle - Center Console 2
C
X80A Accessory Power Receptacle - Center Console 1
C
-SAO
1
X305
S48A Multifunction Switch - Instrument Panel
14
E32 Cigarette Lighter Receptacle
C
SAO
K182 Parking Assist Control Module
X1 10
X51A Fuse Block - Instrument Panel
K33 HVAC Control Module
X2 8
S77 Transfer Case Shift Control Switch
6
NQ6/NQ7
KR76 Retained Accessory Power Relay
85
44
X2
S32P Seat Heating Switch - Passenger
1
KA1
S32D Seat Heating Switch - Driver
1
KA1
KR73 Ignition Main Relay
86
S48A Multifunction Switch - Instrument Panel
14
P2 Transmission Shift Lever Position Indicator
3
X306
MYB
X84 Data Link Connector
4

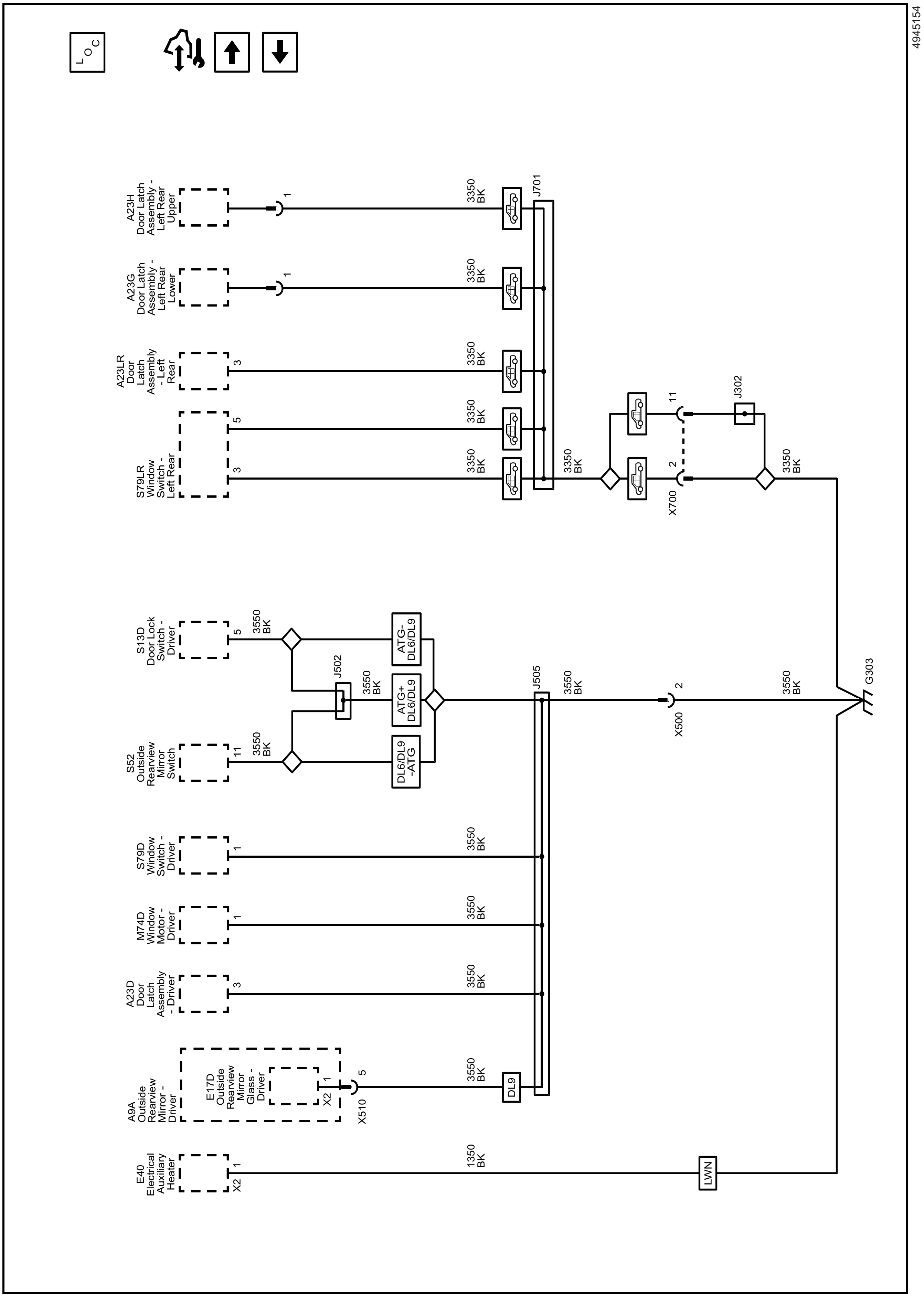
Ground Distribution Schematics (G301)


4945151
A10 Inside Rearview Mirror
5
3150 BK
UE1/DD8
E37F Dome/Reading Lamps - Front
6
3150 BK
E37R Dome/Reading Lamps - Rear
6
3150 BK
P14 Passenger Air Bag Disabled Indicator
2
3150 BK
E31L Sunshade Mirror Lamp - Left
B
3150 BK
DEG
E31R Sunshade Mirror Lamp - Right
B
3150 BK
DEG
J308
2050 BK
X301 12
3150 BK
K69 Transfer Case Control Module
X3 D
3250 BK
NQ6/NQ7
W7 Blunt Cut - Shield
1782 BK
J106
1782 BK
X101 12
1782 BK
NQ6/NQ7
1782 BK
W7 Blunt Cut - Shield
1782 BARE
J101
G301
K9 Body Control Module
X6 3
3150 BK
E6 Center High Mounted Stop Lamp
E33R Cargo Lamp - Right
B
B
E33L Cargo Lamp - Left
B
3150 BK
X303 3
3150 BK
X50A Fuse Block - Underhood
KR112 Cargo Lamp Relay
85
X3 10 (Not Used)
X2 43
3150 BK
KR12C Windshield Wiper Speed Control Relay
KR12B Windshield Wiper Relay
30
30
87A
87A
M75 Windshield Wiper Motor
2
95 YE/BN
X102 11
95 YE/BN
X1 73
X1 74
3150 BK
X102 38
3150 BK
J103
3150 BK
3
3150 BK

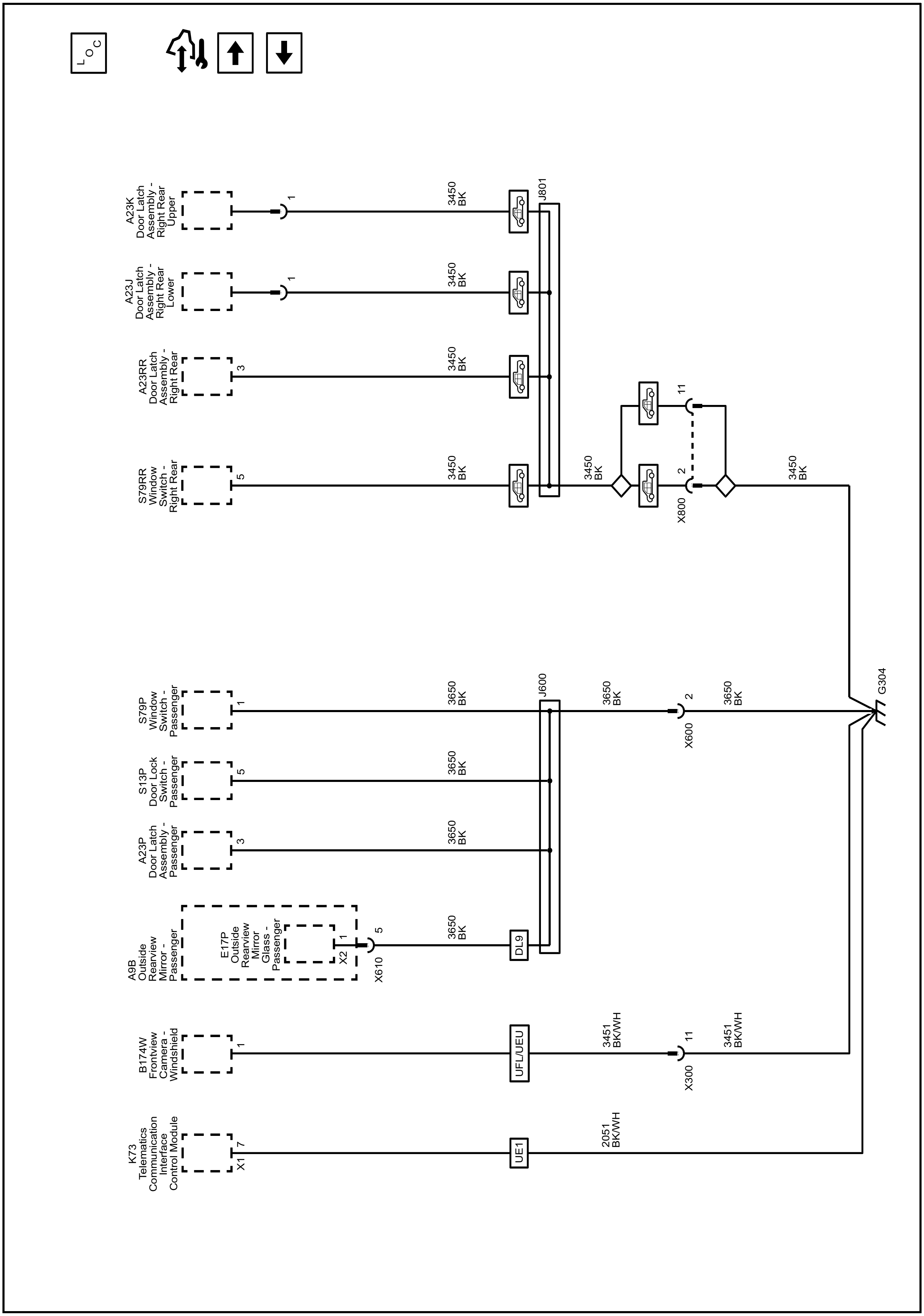
Ground Distribution Schematics (G302 and G305)


4945153
L O C
T3 Audio Amplifier
X1 8
2251 BK/WH
UQA
F101 Passenger Instrument Panel Air Bag
X3 1
2051 BK/WH
X207
5
X83R Auxiliary Audio Input - Rear
X1 4
X305
2
N8D
J228
X83 Auxiliary Audio Input
A26 HVAC Controls
10
P17 Info Display Module
X1 10
X92RA USB Receptacle - Rear Compartment
4
J226
G305
A11 Radio
X1 3
3
S65P Seat Lumbar Support Switch - Passenger
H
3850 BK
AT9
J312
S64P Seat Adjuster Switch - Passenger
B
AAQ
K29 Seat Heating Control Module
X1 8
KA1
X320
16
G302
S65D Seat Lumbar Support Switch - Driver
H
3750 BK
AL9
J311
X310
S64D Seat Adjuster Switch - Driver
B
-AL9

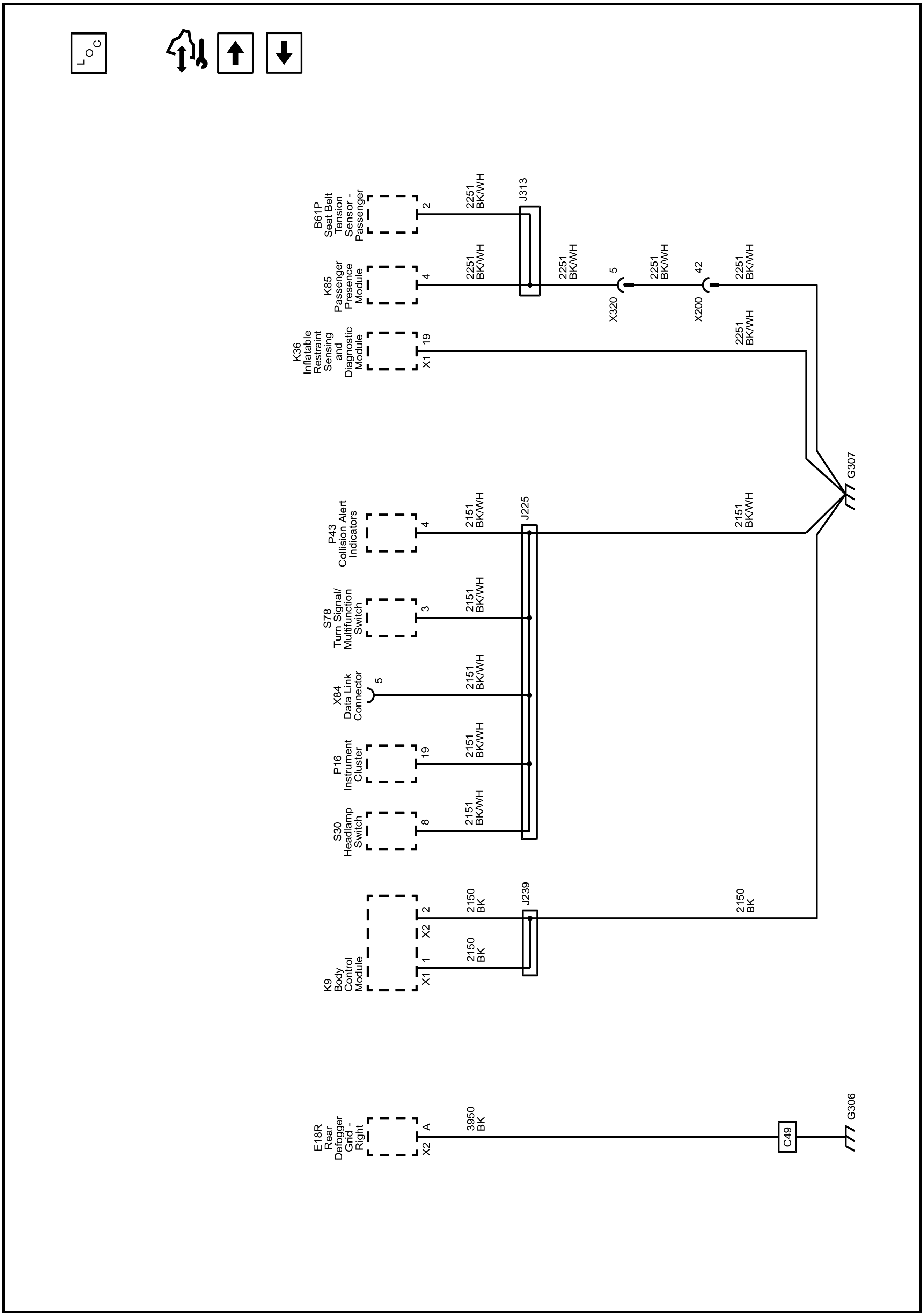
Ground Distribution Schematics (G303)


4945154
LOC
A23H Door Latch Assembly - Left Rear Upper
A23G Door Latch Assembly - Left Rear Lower
A23LR Door Latch Assembly - Left Rear
S79LR Window Switch - Left Rear
S13D Door Lock Switch - Driver
S52 Outside Rearview Mirror Switch
S79D Window Switch - Driver
M74D Window Motor - Driver
A23D Door Latch Assembly - Driver
A9A Outside Rearview Mirror - Driver
E17D Outside Rearview Mirror Glass - Driver
E40 Electrical Auxiliary Heater
1
1
3
5
3
5
11
1
1
3
1
X2
5
X510
X2
1
3350 BK
3350 BK
3350 BK
3350 BK
3350 BK
3350 BK
3350 BK
J701
11
2
X700
J302
3550 BK
3550 BK
3550 BK
3550 BK
3550 BK
3550 BK
3550 BK
3550 BK
3550 BK
J502
ATG- DL6/DL9
ATG+ DL6/DL9
DL6/DL9 -ATG
J505
DL9
2
X500
G303
1350 BK
LWN

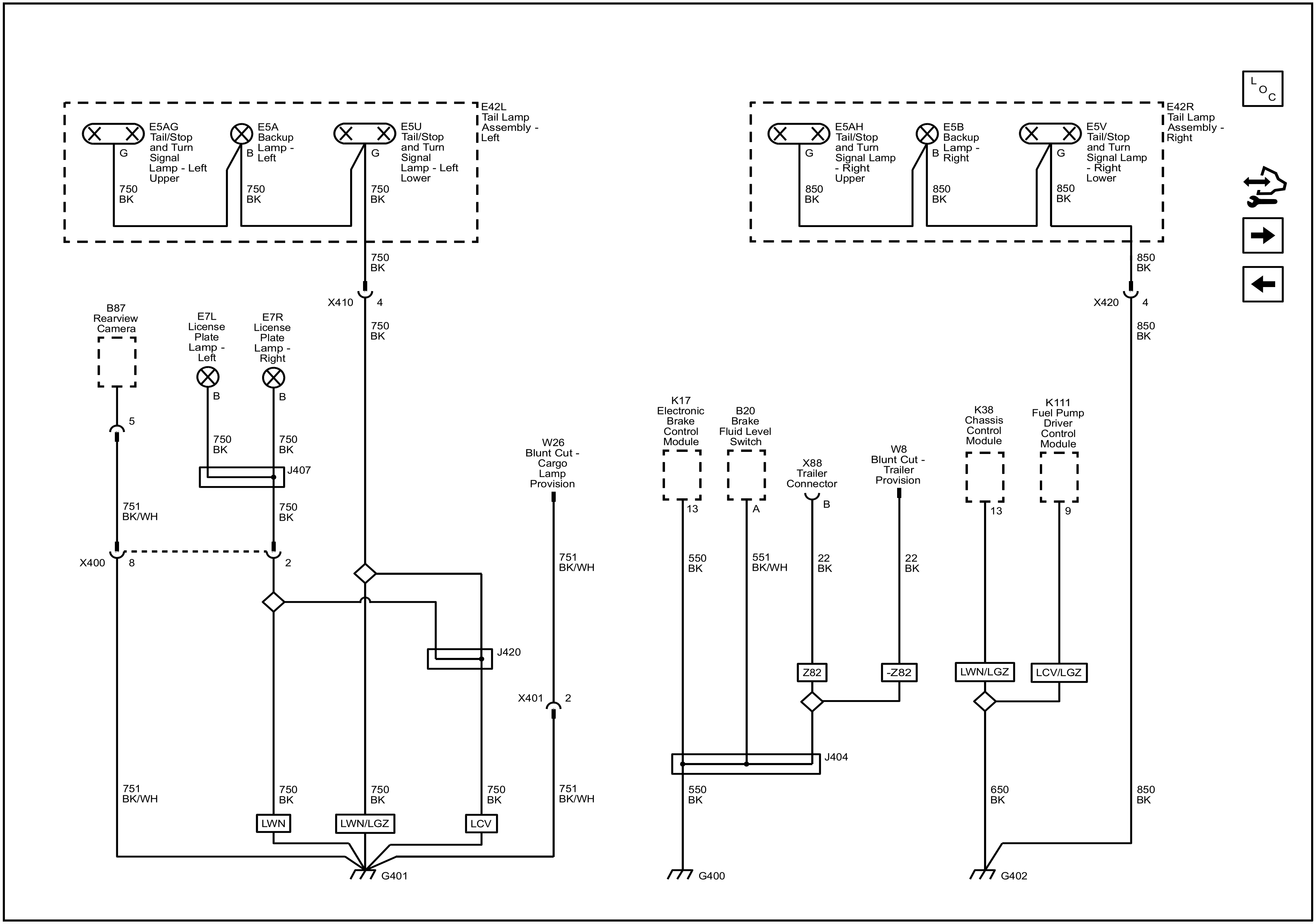
Ground Distribution Schematics (G304)


4945155
A23K Door Latch Assembly - Right Rear Upper
A23J Door Latch Assembly - Right Rear Lower
A23RR Door Latch Assembly - Right Rear
S79RR Window Switch - Right Rear
S79P Window Switch - Passenger
S13P Door Lock Switch - Passenger
A23P Door Latch Assembly - Passenger
A9B Outside Rearview Mirror - Passenger
E17P Outside Rearview Mirror Glass - Passenger
B174W Frontview Camera - Windshield
K73 Telematics Communication Interface Control Module
1
1
3
5
1
5
3
1
X2
5
X610
1
X1 7
3450 BK
3450 BK
3450 BK
3450 BK
J801
3450 BK
11
2
X800
3450 BK
3650 BK
3650 BK
3650 BK
3650 BK
J600
DL9
3650 BK
2
X600
3650 BK
G304
UFL/UEU
3451 BK/WH
11
X300
3451 BK/WH
UE1
2051 BK/WH

Ground Distribution Schematics (G306 and G307)


4945156
L O C
B61P Seat Belt Tension Sensor - Passenger
2
2251 BK/WH
J313
K85 Passenger Presence Module
4
2251 BK/WH
2251 BK/WH
5
X320
2251 BK/WH
42
X200
2251 BK/WH
K36 Inflatable Restraint Sensing and Diagnostic Module
X1 19
2251 BK/WH
G307
P43 Collision Alert Indicators
4
2151 BK/WH
J225
2151 BK/WH
S78 Turn Signal/ Multifunction Switch
3
2151 BK/WH
X84 Data Link Connector
5
2151 BK/WH
P16 Instrument Cluster
19
2151 BK/WH
S30 Headlamp Switch
8
2151 BK/WH
K9 Body Control Module
X2 2
2150 BK
J239
2150 BK
X1 1
2150 BK
E18R Rear Defogger Grid - Right
X2 A
3950 BK
C49
G306

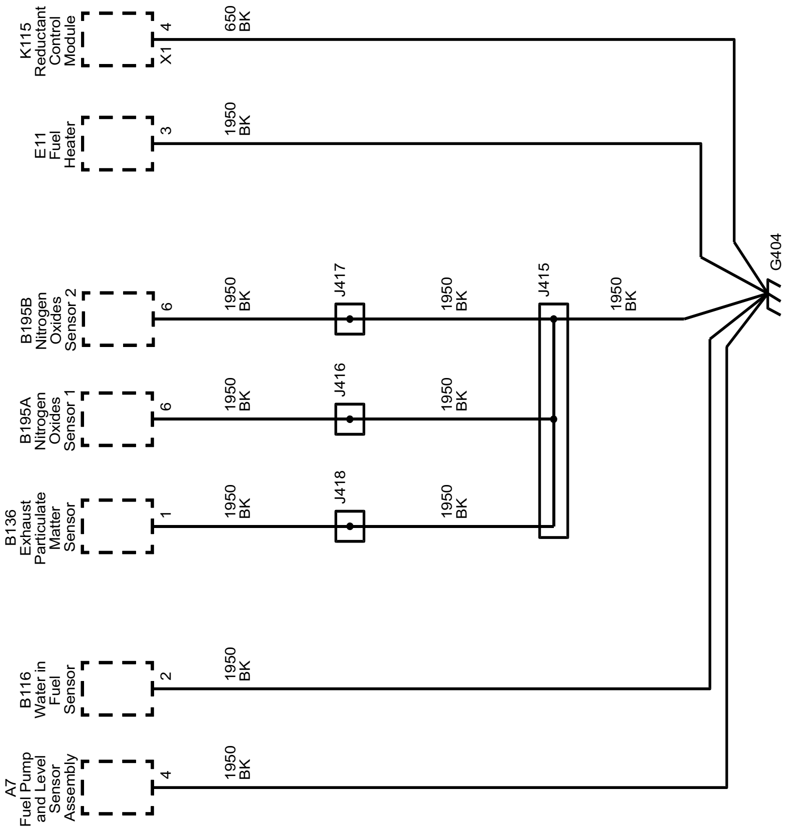
Ground Distribution Schematics (G400, G401, and G402)



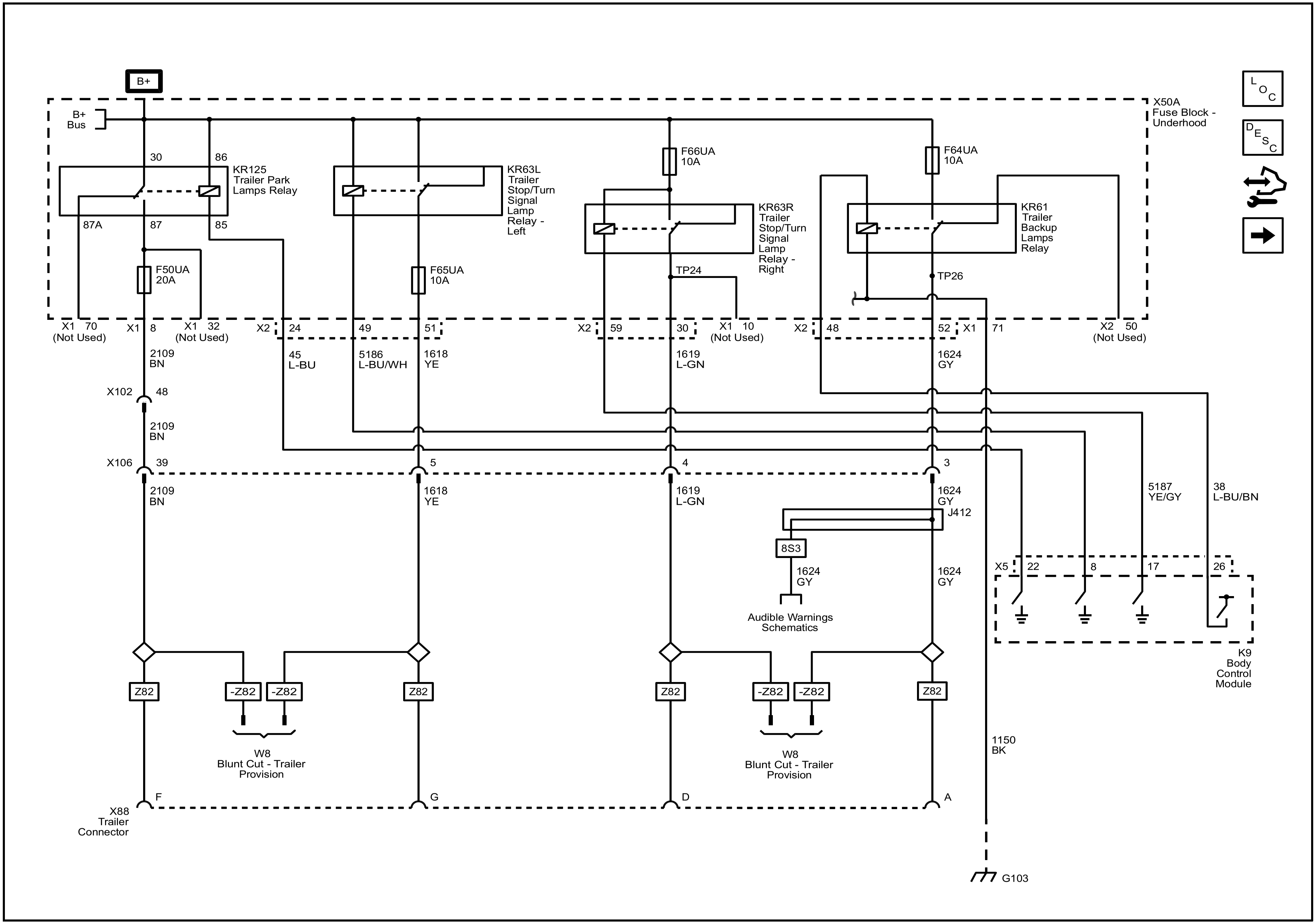
E42L
Tail Lamp Assembly - Left
E5AG
Tail/Stop and Turn Signal Lamp - Left Upper
G
750 BK
E5A
Backup Lamp - Left
B
750 BK
E5U
Tail/Stop and Turn Signal Lamp - Left Lower
G
750 BK
750 BK
X410
4
750 BK
E42R
Tail Lamp Assembly - Right
E5AH
Tail/Stop and Turn Signal Lamp - Right Upper
G
850 BK
E5B
Backup Lamp - Right
B
850 BK
E5V
Tail/Stop and Turn Signal Lamp - Right Lower
G
850 BK
850 BK
X420
4
850 BK
B87
Rearview Camera
5
751 BK/WH
E7L
License Plate Lamp - Left
B
750 BK
E7R
License Plate Lamp - Right
B
750 BK
J407
750 BK
X400
8
2
W26
Blunt Cut - Cargo Lamp Provision
751 BK/WH
X401
2
J420
751 BK/WH
750 BK
LWN
750 BK
LWN/LGZ
750 BK
LCV
751 BK/WH
G401
K17
Electronic Brake Control Module
13
550 BK
B20
Brake Fluid Level Switch
A
551 BK/WH
X88
Trailer Connector
B
22 BK
Z82
W8
Blunt Cut - Trailer Provision
22 BK
-Z82
J404
550 BK
G400
K38
Chassis Control Module
13
LWN/LGZ
650 BK
K111
Fuel Pump Driver Control Module
9
LCV/LGZ
850 BK
G402
L O C
4945157

Ground Distribution Schematics (G404 (LWN))

4945158

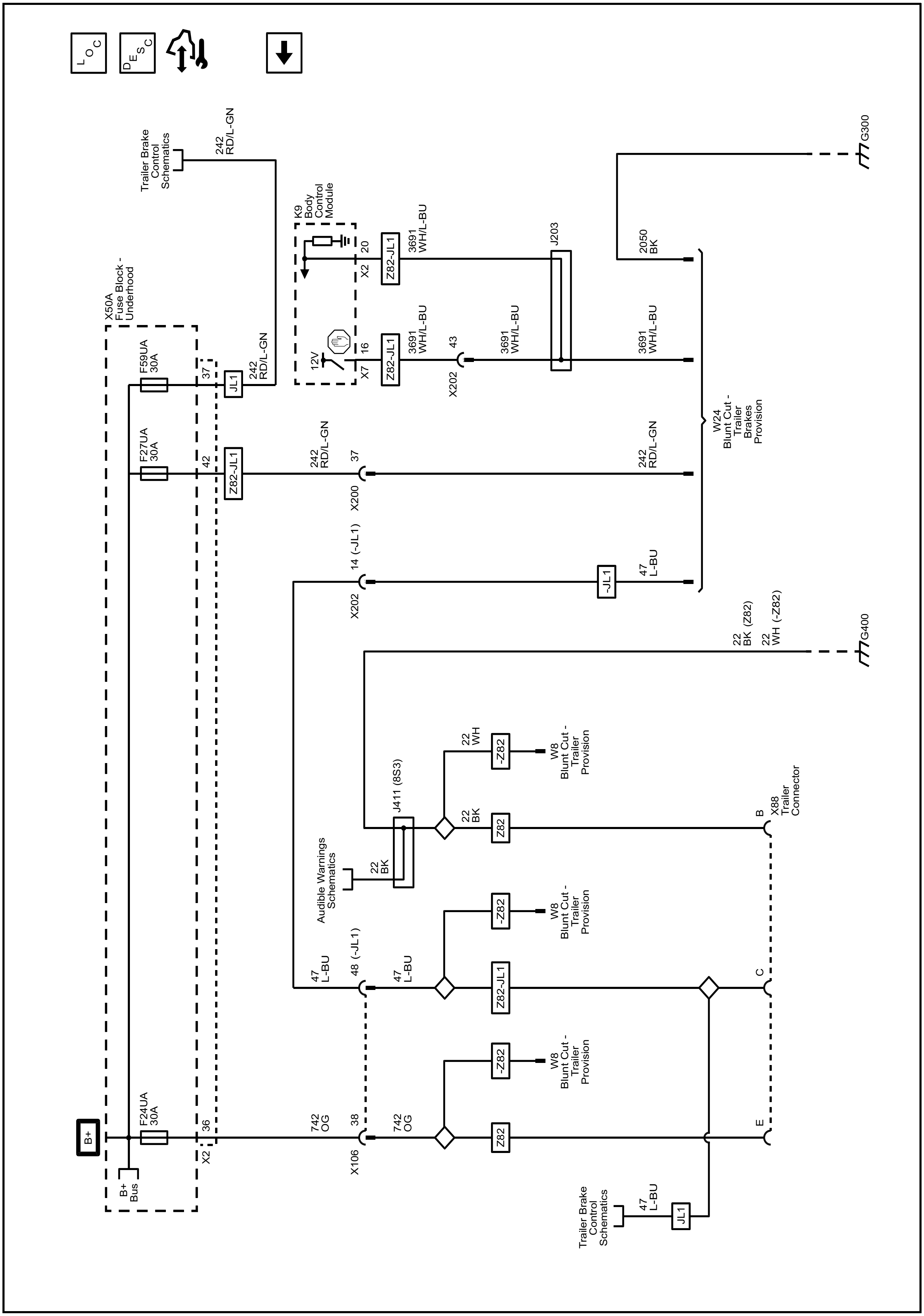

K115 Reductant Control Module
X1 4
650 BK
E11 Fuel Heater
3
1950 BK
B195B Nitrogen Oxides Sensor 2
6
1950 BK
J417
1950 BK
J415
1950 BK
G404
B195A Nitrogen Oxides Sensor 1
6
1950 BK
J416
1950 BK
B136 Exhaust Particulate Matter Sensor
1
1950 BK
J418
1950 BK
B116 Water in Fuel Sensor
2
1950 BK
A7 Fuel Pump and Level Sensor Assembly
4
1950 BK

Trailer Connector/Provision Schematics (Trailer Connector Pins: A,D,F, and G)


B+
B+ Bus
X50A Fuse Block - Underhood
30
86
KR125 Trailer Park Lamps Relay
87A
87
85
F50UA 20A
KR63L Trailer Stop/Turn Signal Lamp Relay - Left
F65UA 10A
F66UA 10A
KR63R Trailer Stop/Turn Signal Lamp Relay - Right
TP24
F64UA 10A
KR61 Trailer Backup Lamps Relay
TP26
X1 70 (Not Used)
X1 8
X1 32 (Not Used)
X2 24
49
51
X2 59
30
X1 10 (Not Used)
X2 48
52
X1 71
X2 50 (Not Used)
2109 BN
45 L-BU
5186 L-BU/WH
1618 YE
1619 L-GN
1624 GY
X102 48
2109 BN
X106 39
5
4
3
2109 BN
1618 YE
1619 L-GN
1624 GY
J412
5187 YE/GY
38 L-BU/BN
8S3
1624 GY
Audible Warnings Schematics
1624 GY
X5 22
8
17
26
K9 Body Control Module
Z82
-Z82
-Z82
Z82
Z82
-Z82
-Z82
Z82
W8 Blunt Cut - Trailer Provision
W8 Blunt Cut - Trailer Provision
1150 BK
F
G
D
A
X88 Trailer Connector
G103

4952198

Trailer Connector/Provision Schematics (Trailer Connector Pins: B,C, E, and Trailer Brakes Provisions)


4952200
B+
B+ Bus
X50A Fuse Block - Underhood
F59UA 30A
F27UA 30A
F24UA 30A
37
42
36
X2
JL1
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Trailer Brake Control Schematics
K9 Body Control Module
12V
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3691 WH/L-BU
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X202
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X200
14 (-JL1)
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47 L-BU
W24 Blunt Cut - Trailer Brakes Provision
G300
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22 BK (Z82)
22 WH (-Z82)
J411 (8S3)
Audible Warnings Schematics
22 BK
22 WH
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Z82
W8 Blunt Cut - Trailer Provision
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B
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47 L-BU
48 (-JL1)
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X106
Z82-JL1
Trailer Brake Control Schematics
JL1

Component Locator

Master Electrical Component List

Code	Name	Option	Location	Locator View	Connector End View
A7	Fuel Pump and Level Sensor Assembly	—	Under the vehicle, on top the fuel tank	*Underbody Components (2 of 2)*	• *A7 Fuel Pump and Level Sensor Assembly (LCV/LGZ)* • *A7 Fuel Pump and Level Sensor Assembly (LWN)*
A9A	Outside Rearview Mirror - Driver	—	Outside the vehicle, at the front of the driver door	• *Front of Vehicle Components (Chevrolet/X88)* • *Front of Vehicle Components (GMC/Z88)*	—
A9B	Outside Rearview Mirror - Passenger	—	Outside the vehicle, at the front of the passenger door	• *Front of Vehicle Components (Chevrolet/X88)* • *Front of Vehicle Components (GMC/Z88)*	—
A10	Inside Rearview Mirror	—	In the passenger compartment, at the top center of the windshield, behind mirror	• *Headliner Components (Crew Cab)* • *Headliner Components (Extended Cab)*	*A10 Inside Rearview Mirror*
A11	Radio	—	In the passenger compartment, center of the instrument panel, behind the info display module	*Behind the Instrument Panel Components*	• *A11 Radio X1 (IOR)* • *A11 Radio X1 (IOS/IOT)* • *A11 Radio X2 ((IOS/IOT)+UQ3)* • *A11 Radio X2 (IOR+UQ3)* • *A11 Radio X3 (IOR+U2K)* • *A11 Radio X3 (IOS/IOT)* • *A11 Radio X4 (IOR)* • *A11 Radio X4 (IOS/IOT)* • *A11 Radio X5 ((IOS/IOT)+UVB)* • *A11 Radio X5 (IOR)* • *A11 Radio X6 (IOR)* • *A11 Radio X6 (IOS/IOT)* • *A11 Radio X7 (IOS/IOT)* • *A11 Radio X8 ((IOS/IOT)+U2K)*
A16	Transfer Case Motor	NQ6/NQ7	On the underbody, mounted to the bottom rear of the transfer case	*Automatic Transmission Components (MYB with NQ6/NQ7)*	*A16 Transfer Case Motor*

Master Electrical Component List (cont'd)

Code	Name	Option	Location	Locator View	Connector End View
A22	Radio Controls	—	In the passenger compartment, at the center of the instrument panel, part of the info display module	*Front of the Instrument Panel Components*	*A22 Radio Controls (IOR)*
A23D	Door Latch Assembly - Driver	—	In the passenger compartment, at the middle rear of the driver door	*Driver Door Components*	*A23D Door Latch Assembly - Driver*
A23G	Door Latch Assembly - Left Rear Lower	Extended Cab	In the passenger compartment, at the lower front of the left rear door	*Left Rear Door Components (Extended Cab)*	*A23G Door Latch Assembly - Left Rear Lower*
A23H	Door Latch Assembly - Left Rear Upper	Extended Cab	In the passenger compartment, at the upper front of the left rear door	*Left Rear Door Components (Extended Cab)*	*A23H Door Latch Assembly - Left Rear Upper*
A23J	Door Latch Assembly - Right Rear Lower	Extended Cab	In the passenger compartment, at the lower front of the right rear door	*Right Rear Door Components (Extended Cab)*	*A23J Door Latch Assembly - Right Rear Lower*
A23K	Door Latch Assembly - Right Rear Upper	Extended Cab	In the passenger compartment, at the upper front of the right rear door	*Right Rear Door Components (Extended Cab)*	*A23K Door Latch Assembly - Right Rear Upper*
A23LR	Door Latch Assembly - Left Rear	Crew Cab	In the passenger compartment, at the middle rear of the left rear door	*Left Rear Door Components (Crew Cab)*	*A23LR Door Latch Assembly - Left Rear (Crew Cab)*
A23P	Door Latch Assembly - Passenger	—	In the passenger compartment, at the middle rear of the passenger door	*Passenger Door Components*	*A23P Door Latch Assembly - Passenger*
A23RR	Door Latch Assembly - Right Rear	Crew Cab	In the passenger compartment, at the middle rear of the right rear door	*Right Rear Door Components (Crew Cab)*	*A23RR Door Latch Assembly - Right Rear*
A26	HVAC Controls	—	In the passenger compartment, at the middle center of the instrument panel, below the radio controls	*Front of the Instrument Panel Components*	*A26 HVAC Controls*
A38	Reductant Pump and Sensor Assembly	LWN	Outside the vehicle, above the spare tire, mounted on bottom of the reductant tank	*Underbody Components (LWN) (5 of 6)*	*A38 Reductant Pump and Sensor Assembly (LWN)*
B1	A/C Refrigerant Pressure Sensor	—	(LCV) In the front of the engine compartment, on the right side of the A/C compressor	• *Left Front of the Engine Components (LCV)* • *Left Front of the Engine Components (LGZ)* • *Left Front of the Engine Components (LWN)*	• *B1 A/C Refrigerant Pressure Sensor (LCV/LGZ)* • *B1 A/C Refrigerant Pressure Sensor (LWN)*
B5LF	Wheel Speed Sensor - Left Front	—	Outside the vehicle, in the left front hub assembly	*Wheel Well Components*	• *B5LF Wheel Speed Sensor - Left Front* • *B5LF Wheel Speed Sensor - Left Front*
B5LR	Wheel Speed Sensor - Left Rear	—	Outside the vehicle, in the left rear hub assembly	• *Underbody Components (2 of 2)* • *Wheel Well Components*	• *B5LR Wheel Speed Sensor - Left Rear* • *B5LR Wheel Speed Sensor - Left Rear*

Master Electrical Component List (cont'd)

Code	Name	Option	Location	Locator View	Connector End View
B5RF	Wheel Speed Sensor - Right Front	—	Outside the vehicle, in the right front hub assembly	*Wheel Well Components*	*B5RF Wheel Speed Sensor - Right Front*
B5RR	Wheel Speed Sensor - Right Rear	—	Outside the vehicle, in the right rear hub assembly	*Wheel Well Components*	• *B5RR Wheel Speed Sensor - Right Rear* • *B5RR Wheel Speed Sensor - Right Rear*
B7B	Air Temperature Sensor - Duct Lower	C68	In the passenger compartment, in the floor vent of the front console	*HVAC Assembly Components*	*B7B Air Temperature Sensor - Duct Lower*
B7F	Air Temperature Sensor - Duct Upper	C68	In the passenger compartment, behind the instrument panel, on the upper left side of the HVAC module	*HVAC Assembly Components*	*B7F Air Temperature Sensor - Duct Upper*
B9	Ambient Air Temperature Sensor	—	Outside the vehicle, in the front, behind the bottom center of grille	• *Front of Vehicle Components (Chevrolet/X88)* • *Front of Vehicle Components (GMC/Z88)*	*B9 Ambient Air Temperature Sensor*
B10B	Ambient Light/ Sunload Sensor	—	In the passenger compartment, at the top center of the instrument panel, in the defroster deflector	*Front of the Instrument Panel Components*	*B10B Ambient Light/ Sunload Sensor*
B12A	Transmission Fluid Pressure Switch	MYB	Under the vehicle, inside the automatic transmission, part of the control solenoid valve assembly	—	—
B13	Transmission Fluid Temperature Sensor	MYB	Under the vehicle, inside the automatic transmission, part of the control solenoid valve assembly	—	*G13 Generator X1 (LGZ)*
B14A	Transmission Output Shaft Speed Sensor	MYB	Under the vehicle, internal to the transmission assembly	*Manual Transmission Components (N8D)*	*B14A Transmission Output Shaft Speed Sensor (N8D)*
B14C	Transmission Input Shaft Speed Sensor	MYB	Under the vehicle, internal to the transmission assembly	—	—
B14D	Transmission Intermediate Shaft Speed Sensor	M5T	Internal to the transmission	—	—
B15	Transmission Internal Mode Switch	MYB	Under the vehicle, internal to the transmission assembly	—	*B15 Transmission Internal Mode Switch (M5T)*
B16	Backup Lamp Switch	N8D	In the engine compartment, on top of the transmission	*Manual Transmission Components (N8D)*	*B16 Backup Lamp Switch*
B18	Battery Current Sensor	—	In the engine compartment, on the negative battery cable	*Left Side of Engine Compartment Components*	*B18 Battery Current Sensor*
B19B	Brake Booster Vacuum Sensor	—	At the rear of the engine compartment, on the power brake booster vacuum check valve	*Left Side of Engine Compartment Components*	*B19B Brake Booster Vacuum Sensor*
B20	Brake Fluid Level Switch	—	At the rear of the engine compartment, on the brake fluid reservoir	*Left Side of Engine Compartment Components*	*B20 Brake Fluid Level Switch*

Master Electrical Component List (cont'd)

Code	Name	Option	Location	Locator View	Connector End View
B22	Brake Pedal Position Sensor	—	In the passenger compartment, above the brake pedal assembly	• *Below Left Side of the Instrument Panel Components (MYB)* • *Below Left Side of the Instrument Panel Components (N8D)*	• *B22 Brake Pedal Position Sensor (MYB)* • *B22 Brake Pedal Position Sensor (N8D)*
B23	Camshaft Position Sensor	LWN	In the engine compartment, front of engine, right of center, near intake manifold	*Right Bottom of Engine Components (LWN)*	*B23 Camshaft Position Sensor*
B23A	Camshaft Position Sensor - Bank 1 Exhaust	LGZ	In the engine compartment, near front, right of center, above of the bank 1 exhaust camshaft position actuator solenoid valve	—	*B23A Camshaft Position Sensor - Bank 1 Exhaust*
B23B	Camshaft Position Sensor - Bank 1 Intake	LGZ	In the engine compartment, near front, right of center, left of the bank 1 intake camshaft position actuator solenoid valve	—	*B23B Camshaft Position Sensor - Bank 1 Intake*
B23C	Camshaft Position Sensor - Bank 2 Exhaust	LGZ	In the engine compartment, near front, left of center, above of the bank 2 exhaust camshaft position actuator solenoid valve	—	*B23C Camshaft Position Sensor - Bank 2 Exhaust*
B23D	Camshaft Position Sensor - Bank 2 Intake	LGZ	In the engine compartment, near front, left of center, right of the bank 2 intake camshaft position actuator solenoid valve	—	*B23D Camshaft Position Sensor - Bank 2 Intake*
B23E	Camshaft Position Sensor - Exhaust	LCV	In the engine compartment, rear left of center, mounted to cylinder head, on left side	*Left Front of the Engine Components (LCV)*	*B23E Camshaft Position Sensor - Exhaust*
B23F	Camshaft Position Sensor - Intake	LCV	In the engine compartment, rear right of center, mounted to cylinder head, on right lower side	*Right Rear of Engine Components (LCV)*	*B23F Camshaft Position Sensor - Intake*
B24LF	Mobile Telephone Microphone - Left Front	—	In the passenger compartment, on the front center of the headliner, in the left side of the overhead console	• *Headliner Components (Crew Cab)* • *Headliner Components (Extended Cab)*	*B24LF Mobile Telephone Microphone - Left Front*
B24RF	Mobile Telephone Microphone - Right Front	—	In the passenger compartment, on the front center of the headliner, in the right side of the overhead console	• *Headliner Components (Crew Cab)* • *Headliner Components (Extended Cab)*	*B24RF Mobile Telephone Microphone - Right Front*
B25B	Clutch Pedal Position Sensor	N8D	In the passenger compartment, under the driver side of the instrument panel, above the clutch pedal	*Below Left Side of the Instrument Panel Components (N8D)*	*B25B Clutch Pedal Position Sensor*

Master Electrical Component List (cont'd)

Code	Name	Option	Location	Locator View	Connector End View
B26	Crankshaft Position Sensor	—	(LCV) In the engine compartment, right of center, near rear, mounted to right side of engine block	• *Left Front of the Engine Components (LWN)* • *Right Bottom of Engine Components (LCV)* • *Right Bottom of Engine Components (LGZ)*	• *B26 Crankshaft Position Sensor (LCV/LWN)* • *B26 Crankshaft Position Sensor (LGZ)*
B34	Engine Coolant Temperature Sensor	—	(LCV) In the engine compartment, rear center, mounted to coolant outlet at rear of cylinder head	• *Left Side of Engine Components (LWN)* • *Right Rear of Engine Components (LCV)*	• *B34 Engine Coolant Temperature Sensor (LCV)* • *B34 Engine Coolant Temperature Sensor (LWN)*
B35	Engine Oil Level Switch	—	(LCV) In the engine compartment, near middle, mounted to right side of oil pan	• *Right Bottom of Engine Components (LWN)* • *Right Rear of Engine Components (LCV)*	• *B35 Engine Oil Level Switch (LCV)* • *B35 Engine Oil Level Switch (LGZ)* • *B35 Engine Oil Level Switch (LWN)*
B37B	Engine Oil Pressure Sensor	—	(LCV) In the engine compartment, near middle, mounted to right side of engine block	• *Left Front of the Engine Components (LGZ)* • *Right Bottom of Engine Components (LCV)* • *Right Bottom of Engine Components (LWN)*	• *B37B Engine Oil Pressure Sensor (LCV)* • *B37B Engine Oil Pressure Sensor (LGZ/LWN)*
B39	A/C Evaporator Temperature Sensor	—	In the passenger compartment, on HVAC module, behind the instrument panel	*HVAC Assembly Components*	*B39 A/C Evaporator Temperature Sensor*
B46	Fuel Level Sensor	—	Under the vehicle, inside the fuel tank, part of the fuel pump and level sensor assembly	—	—
B47	Fuel Pressure Sensor	LCV/LGZ	On the vehicle underbody, on the fuel line, next to the electronic brake control module	• *Chassis Components (Crew Cab)* • *Chassis Components (Extended Cab)* • *Chassis Underbody Components (Extended Cab)*	*B47 Fuel Pressure Sensor*
B47B	Fuel Rail Pressure Sensor	LWN	In the engine compartment, left rear of engine, on fuel rail	*Right Rear of Engine Components (LWN)*	*B47B Fuel Rail Pressure Sensor*

Master Electrical Component List (cont'd)

Code	Name	Option	Location	Locator View	Connector End View
B52A	Heated Oxygen Sensor 1	LCV	In the engine compartment, left of center, in the exhaust manifold	*Left Front of the Engine Components (LCV)*	*B52A Heated Oxygen Sensor 1 (LCV)*
B52B	Heated Oxygen Sensor 2	LCV	In the engine compartment, rear, left of center, mounted to catalytic converter, near transmission	*Left Front of the Engine Components (LCV)*	*B52B Heated Oxygen Sensor 2*
B52C	Heated Oxygen Sensor - Bank 1 Sensor 1	LGZ	In the engine compartment, right of center, near rear, on exhaust pipe, before the catalytic converter	*Right Rear of Engine Components (LGZ)*	*B52C Heated Oxygen Sensor Bank 1 Sensor 1 (LGZ)*
B52D	Heated Oxygen Sensor - Bank 1 Sensor 2	LGZ	In the engine compartment, right of center, rear, on exhaust pipe, after the catalytic converter	*Right Rear of Engine Components (LGZ)*	*B52D Heated Oxygen Sensor - Bank 1 Sensor 2*
B52E	Heated Oxygen Sensor - Bank 2 Sensor 1	LGZ	In the engine compartment, left of center, near rear, on exhaust pipe, before the catalytic converter	*Left Front of the Engine Components (LGZ)*	*B52E Heated Oxygen Sensor - Bank 2 Sensor 1*
B52F	Heated Oxygen Sensor - Bank 2 Sensor 2	LGZ	In the engine compartment, left of center, rear, on exhaust pipe, after the catalytic converter	*Right Rear of Engine Components (LGZ)*	*B52F Heated Oxygen Sensor - Bank 2 Sensor 2*
B55	Engine Hood Switch	UTJ	In the front of the engine compartment, part of the hood latch	*Left Front of Engine Compartment Components*	• *B55 Engine Hood Switch (ULV)* • *B55 Engine Hood Switch (-ULV)*
B59L	Front Impact Sensor - Left	—	In the engine compartment, lower left front of the radiator support	*Left Front of Engine Compartment Components*	*B59L Front Impact Sensor - Left*
B59R	Front Impact Sensor - Right	—	In the engine compartment, lower right front of the radiator support	*Right Front of Engine Compartment Components*	*B59R Front Impact Sensor - Right*
B60	Passenger Presence Sensor	—	In the passenger compartment, under the passenger seat cushion, part of the passenger presence module	—	—
B61P	Seat Belt Tension Sensor - Passenger	—	In the passenger compartment, part of the passenger seat belt buckle	—	*B61P Seat Belt Tension Sensor - Passenger*
B63LF	Side Impact Sensor - Left Front	—	In the driver door, behind the trim panel, toward the rear of the door	*Driver Door Components*	*B63LF Side Impact Sensor - Left Front*
B63LR	Side Impact Sensor - Left Rear	—	In the left rear door, behind the trim panel, toward the rear of the door	• *Left Passenger Components (Crew Cab)* • *Left Passenger Components (Extended Cab)*	*B63LR Side Impact Sensor - Left Rear*
B63RF	Side Impact Sensor - Right Front	—	In the passenger door, behind the trim panel, toward the rear of the door	*Passenger Door Components*	*B63RF Side Impact Sensor - Right Front*
B63RR	Side Impact Sensor - Right Rear	—	In the right rear door, behind the trim panel, toward the rear of the door	• *Right Passenger Components (Crew Cab)* • *Right Passenger Components (Extended Cab)*	*B63RR Side Impact Sensor - Right Rear*

Master Electrical Component List (cont'd)

Code	Name	Option	Location	Locator View	Connector End View
B65	Intake Manifold Pressure and Air Temperature Sensor	LWN	In the engine compartment, left of center, mounted to top of intake manifold	*Top of Engine Components (LWN)*	*B65 Intake Manifold Pressure and Air Temperature Sensor*
B68A	Knock Sensor 1	LCV/LGZ	In the engine compartment, right of center, mounted to right side of engine block	• *Right Bottom of Engine Components (LCV)* • *Right Bottom of Engine Components (LGZ)*	*B68A Knock Sensor 1*
B68B	Knock Sensor 2	—	(LCV) In the engine compartment, mounted to right side of engine block	*Right Bottom of Engine Components (LCV)*	*B68B Knock Sensor 2*
B74	Manifold Absolute Pressure Sensor	—	(LCV) In the engine compartment, mounted to right side of intake manifold	• *Left Front of the Engine Components (LGZ)* • *Right Bottom of Engine Components (LCV)* • *Right Rear of Engine Components (LGZ)*	• *B74 Manifold Absolute Pressure Sensor (LCV)* • *B74 Manifold Absolute Pressure Sensor (LGZ)*
B75C	Multifunction Intake Air Sensor	LCV/LGZ/LWN	Right side of the engine compartment, in the air intake duct	• *Right Rear of Engine Components (LCV)* • *Right Rear of Engine Components (LGZ)* • *Right Rear of Engine Components (LWN)*	*B75C Multifunction Intake Air Sensor*
B80	Park Brake Switch	—	In the passenger compartment, at the left side of the Driver Footwell	• *Below Left Side of the Instrument Panel Components (MYB)* • *Below Left Side of the Instrument Panel Components (N8D)* • *Left Passenger Components (Crew Cab)*	*B80 Park Brake Switch*
B81B	Park Position Switch	MYB	In the passenger compartment, center near front, on shift lever within floor console	—	—
B87	Rearview Camera	UVC	In the lower center of the tailgate handle assembly	*Rear of Vehicle Components*	• *B87 Rearview Camera (UVB)* • *B87 Rearview Camera (UVC+IOR)*

Master Electrical Component List (cont'd)

Code	Name	Option	Location	Locator View	Connector End View
B88D	Seat Belt Switch - Driver	—	In the passenger compartment, on the side of the driver seat cushion, part of the driver seat belt buckle	*Driver Seat Components*	—
B88P	Seat Belt Switch - Passenger	—	In the passenger compartment, on the side of the passenger seat cushion, part of the passenger front seat belt buckle	*Passenger Seat Components*	—
B107	Accelerator Pedal Position Sensor	—	In the passenger compartment, on the driver floor board above the accelerator pedal	• *Below Left Side of the Instrument Panel Components (MYB)* • *Below Left Side of the Instrument Panel Components (N8D)*	*B107 Accelerator Pedal Position Sensor*
B115	Vehicle Speed Sensor	NQ6/NQ7	Under Vehicle on Transfer Case	*Automatic Transmission Components (MYB with NQ6/NQ7)*	*B115 Vehicle Speed Sensor (NQ6/NQ7)*
B116	Water in Fuel Sensor	LWN	On the underbody, along the inboard side of the left frame rail, mounted to the fuel filter assembly	*Underbody Components (LWN) (3 of 6)*	*B116 Water in Fuel Sensor*
B118	Windshield Washer Fluid Level Sensor	—	In the engine compartment, at the right front corner	—	*B118 Windshield Washer Fluid Level Sensor*
B130A	Exhaust Gas Recirculation Temperature Sensor 1	LWN	In the engine compartment, right front of engine, attached to the exhaust manifold at cylinder 1	*Right Rear of Engine Components (LWN)*	*B130A Exhaust Gas Recirculation Temperature Sensor 1*
B130B	Exhaust Gas Recirculation Temperature Sensor 2	LWN	In the engine compartment, left rear of engine, attached to the cylinder head at cylinder 4	*Right Rear of Engine Components (LWN)*	*B130B Exhaust Gas Recirculation Temperature Sensor 2*
B131A	Exhaust Temperature Sensor 1	LWN	In the engine compartment, right rear, mounted to the inlet side of the catalytic converter	*Right Rear of Engine Components (LWN)*	*B131A Exhaust Temperature Sensor 1*
B131B	Exhaust Temperature Sensor 2	LWN	In the engine compartment, right rear, mounted to the outlet side of the catalytic converter	*Right Rear of Engine Components (LWN)*	*B131B Exhaust Temperature Sensor 2*
B131C	Exhaust Temperature Sensor 3	LWN	On the underbody, right, mounted to the outlet side of the nitrogen oxides catalytic converter	*Underbody Components (LWN) (2 of 6)*	*B131C Exhaust Temperature Sensor 3*
B131D	Exhaust Temperature Sensor 4	LWN	On the underbody, inboard side of the right frame rail, mounted to the exhaust particulate filter	*Underbody Components (LWN) (2 of 6)*	*B131D Exhaust Temperature Sensor 4*
B131E	Exhaust Temperature Sensor 5	LWN	On the underbody, inboard side of the right frame rail, rear of the exhaust particulate filter, mounted to the exhaust pipe	*Underbody Components (LWN) (2 of 6)*	*B131E Exhaust Temperature Sensor 5*

Master Electrical Component List (cont'd)

Code	Name	Option	Location	Locator View	Connector End View
B136	Exhaust Particulate Matter Sensor	LWN	On the underbody, mounted to the inboard side of the right frame rail, forward of the right rear shock	*Underbody Components (LWN) (4 of 6)*	*B136 Exhaust Particulate Matter Sensor*
B137	Power Steering Shaft Torque Sensor	—	In the engine compartment, lower left, part of power steering rack assembly	—	*B137 Power Steering Shaft Torque Sensor*
B150	Fuel Tank Pressure Sensor	LCV/LGZ	On the underbody, mounted to the fuel pump and level sensor assembly	• *Chassis Components (Crew Cab)* • *Chassis Components (Extended Cab)* • *Underbody Components (2 of 2)*	*B150 Fuel Tank Pressure Sensor*
B153D	Seat Belt Buckle - Driver	—	In the passenger compartment, at the inboard of the driver seat	—	*B153D Seat Belt Buckle - Driver*
B153P	Seat Belt Buckle - Passenger	—	In the passenger compartment, at the inboard of the passenger seat	—	*B153P Seat Belt Buckle - Passenger*
B154	Diesel Particulate Filter Exhaust Differential Pressure Sensor	LWN	On the underbody, mounted to the underside side of the bed, above the right frame rail, forward of the right rear shock	*Underbody Components (LWN) (4 of 6)*	*B154 Diesel Particulate Filter Exhaust Differential Pressure Sensor*
B160	Windshield Temperature and Inside Moisture Sensor	C68	In the passenger compartment, behind the inside rearview mirror, near the windshield	• *Headliner Components (Crew Cab)* • *Headliner Components (Extended Cab)*	*B160 Windshield Temperature and Inside Moisture Sensor*
B174W	Frontview Camera - Windshield	UFL/UEU	In the passenger compartment, at the top center of the windshield	• *Headliner Components (Crew Cab)* • *Headliner Components (Extended Cab)*	*B174W Frontview Camera - Windshield*
B193A	Charge Air Cooler Inlet Temperature Sensor	LWN	In the engine compartment, right front of engine, attached to the charge air cooler inlet duct	*Right Rear of Engine Components (LWN)*	*B193A Charge Air Cooler Inlet Temperature Sensor*
B193B	Charge Air Cooler Outlet Temperature Sensor	LWN	In the engine compartment, left front of engine, attached to the charge air cooler outlet duct	*Left Side of Engine Components (LWN)*	*B193B Charge Air Cooler Outlet Temperature Sensor*
B194	Reductant Pressure Sensor	LWN	Internal to the reductant fluid reservoir assembly	—	—
B195A	Nitrogen Oxides Sensor 1	LWN	In the engine compartment, right rear, mounted near the top of the catalytic converter	*Right Rear of Engine Components (LWN)*	*B195A Nitrogen Oxides Sensor 1*
B195B	Nitrogen Oxides Sensor 2	LWN	On the underbody, right, mounted to the outlet side of the nitrogen oxides catalytic converter	*Underbody Components (LWN) (2 of 6)*	*B195B Nitrogen Oxides Sensor 2*
B203	Radiator Coolant Temperature Sensor	LCV	In the engine compartment, lower left corner of radiator	*Radiator Assembly Components*	*B203 Radiator Coolant Temperature Sensor*

Master Electrical Component List (cont'd)

Code	Name	Option	Location	Locator View	Connector End View
B213	Reductant Level Sensor	LWN	Internal to the reductant fluid reservoir assembly	*Underbody Components (LWN) (5 of 6)*	—
B214	Reductant Temperature Sensor	LWN	Internal to the reductant fluid reservoir assembly	—	—
B227	Gear Position Sensor	NQ6	Under the vehicle, on the top rear of the transfer case	*Automatic Transmission Components (MYB with NQ6/NQ7)*	*B227 Gear Position Sensor*
B306E	Parking Assist Sensor - Rear Left Outer	—	On the rear fascia, on the left side of the vehicle	—	*B306E Parking Assist Sensor - Rear Left Outer*
B306F	Parking Assist Sensor - Rear Left Middle	—	On the rear fascia, just to the left of the license plate	—	*B306F Parking Assist Sensor - Rear Left Middle*
B306G	Parking Assist Sensor - Rear Right Middle	—	On the rear fascia, just to the right of the license plate	—	*B306G Parking Assist Sensor - Rear Right Middle*
B306H	Parking Assist Sensor - Rear Right Outer	—	On the rear fascia, on the right side of the vehicle	—	*B306H Parking Assist Sensor - Rear Right Outer*
B310	Fuel Pressure/ Temperature Sensor	LGZ/LCV	(LCV) In the engine compartment, near center, rear of cylinder head, on the fuel rail	*Right Top of Engine Components (LCV)*	*B310 Fuel Pressure/ Temperature Sensor (LGZ/LCV)*
C1	Battery	—	In the engine compartment, on the left side, near the underhood fuse block on battery negative cable	*Left Side of Engine Compartment Components*	• *C1 Battery X2* • *C1 Battery X3*
E4AC	Park/Daytime Running Lamp - Left	Z88	Outside of the vehicle, at the left front of the vehicle, in the headlamp assembly	*Front of Vehicle Components (GMC/ Z88)*	—
E4AD	Park/Daytime Running Lamp - Right	Z88	Outside of the vehicle, at the right front of the vehicle, in the headlamp assembly	*Front of Vehicle Components (GMC/ Z88)*	—
E4AL	Park/Daytime Running Lamp - Left Lower	Z88	Outside of the vehicle, front left, in the headlamp assembly	*Front of Vehicle Components (GMC/ Z88)*	—
E4AM	Park/Daytime Running Lamp - Right Lower	Z88	Outside of the vehicle, front right, in the headlamp assembly	*Front of Vehicle Components (GMC/ Z88)*	—
E4E	Headlamp - Left High Beam	—	Outside of the vehicle, at the left front of the vehicle, in the headlamp assembly	• *Front of Vehicle Components (Chevrolet/X88)* • *Front of Vehicle Components (GMC/Z88)*	*E4E Headlamp - Left High Beam*
E4F	Headlamp - Right High Beam	—	Outside of the vehicle, at the right front of the vehicle, in the headlamp assembly	• *Front of Vehicle Components (Chevrolet/X88)* • *Front of Vehicle Components (GMC/Z88)*	*E4E Headlamp - Left High Beam*
E4G	Headlamp - Left Low Beam	—	Outside of the vehicle, at the left front of the vehicle, in the headlamp assembly	• *Front of Vehicle Components (Chevrolet/X88)* • *Front of Vehicle Components (GMC/Z88)*	*E4G Headlamp - Left Low Beam*

Master Electrical Component List (cont'd)

Code	Name	Option	Location	Locator View	Connector End View
E4H	Headlamp - Right Low Beam	—	Outside of the vehicle, at the right front of the vehicle, in the headlamp assembly	• *Front of Vehicle Components (Chevrolet/X88)* • *Front of Vehicle Components (GMC/Z88)*	*E4H Headlamp - Right Low Beam*
E4J	Park Lamp - Left Front	X88	Outside of the vehicle, at the left front of the vehicle, in the headlamp assembly	*Front of Vehicle Components (Chevrolet/X88)*	*E4J Park Lamp - Left Front*
E4K	Park Lamp - Right Front	X88	Outside of the vehicle, at the right front of the vehicle, in the headlamp assembly	*Front of Vehicle Components (Chevrolet/X88)*	*E4K Park Lamp - Right Front (X88)*
E4N	Park/Turn Signal Lamp - Left	—	Outside of the vehicle, at the left front of the vehicle, in the headlamp assembly	• *Front of Vehicle Components (Chevrolet/X88)* • *Front of Vehicle Components (GMC/Z88)*	*E4N Park/Turn Signal Lamp - Left*
E4P	Park/Turn Signal Lamp - Right	—	Outside of the vehicle, at the right front of the vehicle, in the headlamp assembly	• *Front of Vehicle Components (Chevrolet/X88)* • *Front of Vehicle Components (GMC/Z88)*	*E4P Park/Turn Signal Lamp - Right*
E5A	Backup Lamp - Left	—	Outside of the vehicle, at the left rear corner of the vehicle, part of the left tail lamp assembly	*Rear of Vehicle Components*	*E5A Backup Lamp - Left*
E5AG	Tail/Stop and Turn Signal Lamp - Left Upper	—	Outside of the vehicle, at the left rear corner of the vehicle, part of the left tail lamp assembly	*Rear of Vehicle Components*	*E5AG Tail/Stop and Turn Signal Lamp - Left Upper*
E5AH	Tail/Stop and Turn Signal Lamp - Right Upper	—	Outside of the vehicle, at the right rear corner of the vehicle, part of the right tail lamp assembly	*Rear of Vehicle Components*	*E5AH Tail/Stop and Turn Signal Lamp - Right Upper*
E5B	Backup Lamp - Right	—	Outside of the vehicle, at the right rear corner of the vehicle, part of the right tail lamp assembly	*Rear of Vehicle Components*	*E5B Backup Lamp - Right*
E5U	Tail/Stop and Turn Signal Lamp - Left Lower	—	Outside of the vehicle, at the left rear corner of the vehicle, part of the left tail lamp assembly	*Rear of Vehicle Components*	*E5U Tail/Stop and Turn Signal Lamp - Left Lower*
E5V	Tail/Stop and Turn Signal Lamp - Right Lower	—	Outside of the vehicle, at the right rear corner of the vehicle, part of the right tail lamp assembly	*Rear of Vehicle Components*	*E5V Tail/Stop and Turn Signal Lamp - Right Lower*
E6	Center High Mounted Stop Lamp	—	Outside of the vehicle, at the rear center of the roof	*Rear of Vehicle Components*	—
E7L	License Plate Lamp - Left	—	Outside of the vehicle, at the rear center of the vehicle	*Rear of Vehicle Components*	*E7L License Plate Lamp - Left*
E7R	License Plate Lamp - Right	—	Outside of the vehicle, at the rear center of the vehicle	*Rear of Vehicle Components*	*E7R License Plate Lamp - Right*
E11	Fuel Heater	LWN	On the underbody, along the inboard side of the left frame rail, mounted to the fuel filter assembly	*Underbody Components (LWN) (3 of 6)*	*E11 Fuel Heater*

Master Electrical Component List (cont'd)

Code	Name	Option	Location	Locator View	Connector End View
E12A	Glow Plug 1	LWN	In the engine compartment, at the top left side of the engine at number 1 cylinder	*Top of Engine Components (LWN)*	*E12A Glow Plug 1*
E12B	Glow Plug 2	LWN	In the engine compartment, at the top left side of the engine at number 2 cylinder	*Top of Engine Components (LWN)*	*E12B Glow Plug 2 (LWN)*
E12C	Glow Plug 3	LWN	In the engine compartment, at the top left side of the engine at number 3 cylinder	*Top of Engine Components (LWN)*	*E12C Glow Plug 3 (LWN)*
E12D	Glow Plug 4	LWN	In the engine compartment, at the top left side of the engine at number 4 cylinder	*Top of Engine Components (LWN)*	*E12D Glow Plug 4 (LWN)*
E13LA	Headlamp Assembly - Left	—	Outside of the vehicle, at the front left of the vehicle	• *Front of Vehicle Components (Chevrolet/X88)* • *Front of Vehicle Components (GMC/Z88)*	—
E13RA	Headlamp Assembly - Right	—	Outside of the vehicle, at the front right of the vehicle	• *Front of Vehicle Components (Chevrolet/X88)* • *Front of Vehicle Components (GMC/Z88)*	—
E14A	Seat Heating Element - Driver Back	KA1	In the passenger compartment, in the driver seat back	*Driver Seat Components*	*E14A Seat Heating Element - Driver Back (KA1)*
E14B	Seat Heating Element - Driver Cushion	KA1	In the passenger compartment, in the driver seat cushion	*Driver Seat Components*	*E14B Seat Heating Element - Driver Cushion (KA1)*
E14C	Seat Heating Element - Passenger Back	KA1	In the passenger compartment, in the passenger seat back	*Passenger Seat Components*	*E14C Seat Heating Element - Passenger Back (KA1)*
E14D	Seat Heating Element - Passenger Cushion	KA1	In the passenger compartment, in the passenger seat cushion	• *Passenger Seat Components* • *Passenger Seat Components*	*E14D Seat Heating Element - Passenger Cushion (KA1)*
E15	Steering Wheel Heater	UVD	In the passenger compartment, on the steering wheel	—	*E15 Steering Wheel Heater*
E17D	Outside Rearview Mirror Glass - Driver	DL9	Outside of the vehicle, on the driver door, part of outside rearview mirror	—	—
E17P	Outside Rearview Mirror Glass - Passenger	DL9	Outside of the vehicle, on the front passenger door, part of outside rearview mirror	—	—
E18C	Rear Defogger Grid	C49	At the rear of the passenger compartment, Center of the rear window glass	*Rear of Vehicle Components*	—
E18L	Rear Defogger Grid - Left	C49	At the rear of the passenger compartment, left side of the rear window glass	*Rear of Vehicle Components*	*E18L Rear Defogger Grid - Left X2*

Master Electrical Component List (cont'd)

Code	Name	Option	Location	Locator View	Connector End View
E18R	Rear Defogger Grid - Right	C49	At the rear of the passenger compartment, right side of the rear window glass	*Rear of Vehicle Components*	• *E18R Rear Defogger Grid X1* • *E18R Rear Defogger Grid X2*
E29LF	Fog Lamp - Left Front	T3U	At the left front corner of the vehicle, below the left headlamp assembly	• *Front of Vehicle Components (Chevrolet/X88)* • *Front of Vehicle Components (GMC/Z88)*	• *E29LF Fog Lamp - Left Front (ULV)* • *E29LF Fog Lamp - Left Front (-ULV)*
E29RF	Fog Lamp - Right Front	T3U	At the right front corner of the vehicle, below the right headlamp assembly	• *Front of Vehicle Components (Chevrolet/X88)* • *Front of Vehicle Components (GMC/Z88)*	• *E29RF Fog Lamp - Right Front (ULV)* • *E29RF Fog Lamp - Right Front (-ULV)*
E31L	Sunshade Mirror Lamp - Left	D6I	In the passenger compartment, part of the left sunshade	• *Headliner Components (Crew Cab)* • *Headliner Components (Extended Cab)*	*E31L Sunshade Mirror Lamp - Left*
E31R	Sunshade Mirror Lamp - Right	D6I	In the passenger compartment, part of the right sunshade	• *Headliner Components (Crew Cab)* • *Headliner Components (Extended Cab)*	*E31R Sunshade Mirror Lamp - Right*
E32	Cigarette Lighter Receptacle	SAO	In the passenger compartment, at the forward right on the center console. Dealer installed accessory replaces the accessory power receptacle - center console 1	—	*E32 Cigarette Lighter Receptacle (SAO)*
E33L	Cargo Lamp - Left	—	Outside of the vehicle, at the rear center of the roof, part of the center high mounted stop lamp	*Rear of Vehicle Components*	*E33L Cargo Lamp - Left (S0Y)*
E33R	Cargo Lamp - Right	—	Outside of the vehicle, at the rear center of the roof, part of the center high mounted stop lamp	*Rear of Vehicle Components*	*E33R Cargo Lamp - Right (S0Y)*
E36AH	Dome Lamp	—	In the passenger compartment, in the headliner, part of the headliner console	—	*E36AH Dome Lamp (TCA)*
E37F	Dome/Reading Lamps - Front	C74	In the passenger compartment, in the headliner, part of the headliner console	• *Headliner Components (Crew Cab)* • *Headliner Components (Extended Cab)*	*E37F Dome/Reading Lamps - Front*
E37R	Dome/Reading Lamps - Rear	—	In the passenger compartment, on the roof, above the second row seating	• *Headliner Components (Crew Cab)* • *Headliner Components (Extended Cab)*	*E37R Dome/Reading Lamps - Rear*

Master Electrical Component List (cont'd)

Code	Name	Option	Location	Locator View	Connector End View
E40	Electrical Auxiliary Heater	LWN	In the passenger compartment, center of instrument panel, attached to HVAC assembly	*HVAC Assembly Bottom Components (LWN)*	• *E40 Electrical Auxiliary Heater X1* • *E40 Electrical Auxiliary Heater X2 (LWN)*
E41	Engine Coolant Thermostat Heater	LCV	In the engine compartment, left front of the engine, on the thermostat housing	*Left Front of the Engine Components (LCV)*	*E41 Engine Coolant Thermostat Heater*
E42L	Tail Lamp Assembly - Left	—	Outside of the vehicle, at the left rear corner of the vehicle	*Rear of Vehicle Components*	—
E42R	Tail Lamp Assembly - Right	—	Outside of the vehicle, at the right rear corner of the vehicle	*Rear of Vehicle Components*	—
E45	Positive Crankcase Ventilation Heater	LWN	In the engine compartment, front right of the engine, forward of the turbocharger	*Right Bottom of Engine Components (LWN)*	*E45 Positive Crankcase Ventilation Heater*
E52	Reductant Line Heater	LWN	Outside the vehicle, above the spare tire, attached to the reductant fluid inlet line near the reductant pump and sensor assembly	*Underbody Components (LWN) (5 of 6)*	*E52 Reductant Line Heater (LWN)*
E53	Reductant Tank Heater	LWN	Internal to the reductant fluid reservoir assembly	*Underbody Components (LWN) (5 of 6)*	—
F101	Passenger Instrument Panel Air Bag	—	In the passenger compartment, at the top of the passenger side of the instrument panel	*Behind the Instrument Panel Components*	• *F101 Passenger Instrument Panel Air Bag X1* • *F101 Passenger Instrument Panel Air Bag X2* • *F101 Passenger Instrument Panel Air Bag X3*
F105L	Roof Rail Air Bag - Left	—	In the passenger compartment, along the left roof rail, above headliner at door openings	• *Left Passenger Components (Crew Cab)* • *Left Passenger Components (Extended Cab)*	*F105L Roof Rail Air Bag - Left*
F105R	Roof Rail Air Bag - Right	—	In the passenger compartment, along the right roof rail, above headliner at door openings	• *Right Passenger Components (Crew Cab)* • *Right Passenger Components (Extended Cab)*	*F105R Roof Rail Air Bag - Right*
F106D	Seat Side Air Bag - Driver	—	In the passenger compartment, on the left side of the left front seat back	*Driver Seat Components*	*F106D Seat Side Air Bag - Driver*
F106P	Seat Side Air Bag - Passenger	—	In the passenger compartment, on the right side of the right front seat back	*Passenger Seat Components*	*F106P Seat Side Air Bag - Passenger*
F107	Steering Wheel Air Bag	—	In the passenger compartment, in the center of the steering wheel	*Steering Column Components*	• *F107 Steering Wheel Air Bag X1* • *F107 Steering Wheel Air Bag X2*

Master Electrical Component List (cont'd)

Code	Name	Option	Location	Locator View	Connector End View
F112D	Seat Belt Retractor Pretensioner - Driver	—	(Crew Cab) In the passenger compartment, at the base of the left B-pillar	• *Left Passenger Components (Crew Cab)* • *Left Rear Door Components (Extended Cab)*	• *F112D Seat Belt Retractor Pretensioner - Driver (Crew Cab)* • *F112D Seat Belt Retractor Pretensioner - Driver (Extended Cab)*
F112P	Seat Belt Retractor Pretensioner - Passenger	—	(Crew Cab) In the passenger compartment, at the base of the right B-pillar	• *Right Passenger Components (Crew Cab)* • *Right Rear Door Components (Extended Cab)*	• *F112P Seat Belt Retractor Pretensioner - Passenger (Crew Cab)* • *F112P Seat Belt Retractor Pretensioner - Passenger (Extended Cab)*
F113D	Seat Belt Anchor Pretensioner - Driver	—	(Crew Cab) In the passenger compartment, between driver seat and center console, attached to driver seat	• *Driver Seat Components* • *Left Rear Door Components (Extended Cab)*	*F113D Seat Belt Anchor Pretensioner - Driver*
F113P	Seat Belt Anchor Pretensioner - Passenger	—	(Crew Cab) In the passenger compartment, between passenger seat and center console, attached to passenger seat	• *Passenger Seat Components* • *Right Rear Door Components (Extended Cab)*	*F113P Seat Belt Anchor Pretensioner - Passenger*
G1	A/C Compressor	—	In the engine compartment, mounted on the lower left front of the engine	• *Left Front of the Engine Components (LCV)* • *Left Front of the Engine Components (LWN)*	—
G10	Cooling Fan Motor	—	At the front of the engine compartment, in the center of the fan assembly, part of fan control module	—	*G10 Cooling Fan Motor (LCV/LGZ)*
G12	Fuel Pump	—	Under the vehicle, in the fuel tank, part of the fuel pump and level sensor assembly	—	—
G13	Generator	—	(LCV/LWN) In the engine compartment, at the top left front of the engine	• *Left Front of the Engine Components (LGZ)* • *Left Front of the Engine Components (LWN)* • *Right Rear of Engine Components (LCV)* • *Right Rear of Engine Components (LGZ)*	• *G13 Generator X1 (LCV)* • *G13 Generator X1 (LWN)* • *G13 Generator X2* • *G13 Generator X2 (LCV)* • *G13 Generator X2 (LGZ)* • *G13 Generator X2 (LWN)*

Master Electrical Component List (cont'd)

Code	Name	Option	Location	Locator View	Connector End View
G18	High Pressure Fuel Pump	—	(LCV) In the engine compartment, right of center, near rear, mounted to right side of cylinder head	• *Right Rear of Engine Components (LCV)* • *Right Rear of Engine Components (LGZ)*	*G18 High Pressure Fuel Pump*
G24	Windshield Washer Pump	—	In the engine compartment, attached to the washer fluid reservoir	*Left Front of Engine Compartment Components*	*G24 Windshield Washer Pump*
G33	Reductant Pump	LWN	Internal to the reductant fluid reservoir assembly	—	—
K8	Blower Motor Control Module	—	In the passenger compartment, part of the blower motor	*HVAC Assembly Components*	*K8 Blower Motor Control Module*
K9	Body Control Module	—	In the passenger compartment, behind the left side of the instrument panel knee bolster	• *Behind the Instrument Panel Components* • *Left Passenger Components (Crew Cab)* • *Left Passenger Components (Extended Cab)*	• *K9 Body Control Module X1* • *K9 Body Control Module X2* • *K9 Body Control Module X3* • *K9 Body Control Module X4* • *K9 Body Control Module X5* • *K9 Body Control Module X6* • *K9 Body Control Module X7*
K17	Electronic Brake Control Module	—	On vehicle underbody, driver side, under driver seat area on the frame	• *Chassis Components (Crew Cab)* • *Chassis Components (Extended Cab)* • *Chassis Underbody Components (Extended Cab)*	*K17 Electronic Brake Control Module*

Master Electrical Component List (cont'd)

Code	Name	Option	Location	Locator View	Connector End View
K20	Engine Control Module	—	In the engine compartment, to the right of the engine, under the coolant reservoir	*Right Rear of Engine Compartment Components*	• *K20 Engine Control Module X1 (LCV)* • *K20 Engine Control Module X1 (LGZ)* • *K20 Engine Control Module X1 (LWN)* • *K20 Engine Control Module X2 (LCV)* • *K20 Engine Control Module X2 (LGZ)* • *K20 Engine Control Module X2 (LWN)* • *K20 Engine Control Module X3 (LCV)* • *K20 Engine Control Module X3 (LGZ)* • *K20 Engine Control Module X3 (LWN)*
K22	Cooling Fan Control Module	LCV/LGZ	In the engine compartment, forward of the engine, near radiator	*Radiator Assembly Components*	*K22 Cooling Fan Control Module*
K29	Seat Heating Control Module	KA1	In the passenger compartment, under the front of the passenger seat	*Passenger Seat Components*	• *K29 Seat Heating Control Module X1 (KA1)* • *K29 Seat Heating Control Module X2 (KA1)*
K32	Steering Wheel Heating Control Module	UVD	In the passenger compartment, on the steering column.	—	*K32 Steering Wheel Heating Control Module*
K33	HVAC Control Module	—	In the passenger compartment, center of the instrument panel, behind the multifunction instrument panel switch	*Behind the Instrument Panel Components*	• *K33 HVAC Control Module X1* • *K33 HVAC Control Module X2* • *K33 HVAC Control Module X3*
K36	Inflatable Restraint Sensing and Diagnostic Module	—	In the passenger compartment, under the center console	• *Left Passenger Components (Crew Cab)* • *Left Passenger Components (Extended Cab)*	• *K36 Inflatable Restraint Sensing and Diagnostic Module X1* • *K36 Inflatable Restraint Sensing and Diagnostic Module X2*

Master Electrical Component List (cont'd)

Code	Name	Option	Location	Locator View	Connector End View
K38	Chassis Control Module	—	(LGZ) Under the vehicle, mounted to the bracket above the spare tire	• *Chassis Components (Crew Cab)* • *Chassis Components (Extended Cab)* • *Underbody Components (2 of 2)* • *Underbody Components (LWN) (6 of 6)*	*K38 Chassis Control Module*
K38A	Chassis Control Module - Auxiliary	—	Under the vehicle, mounted to the bracket above the spare tire	—	*K38A Chassis Control Module*
K43	Power Steering Control Module	—	On the underbody, ower front of engine compartment, on the power steering rack assembly	*Underbody Components (1 of 2)*	• *K43 Power Steering Control Module X1* • *K43 Power Steering Control Module X2* • *K43 Power Steering Control Module X3*
K56	Serial Data Gateway Module	—	In the passenger compartment, left of the steering column	*Behind the Instrument Panel Components*	• *K56 Serial Data Gateway Module X1* • *K56 Serial Data Gateway Module X2*
K69	Transfer Case Control Module	NQ6/NQ7	In the passenger compartment, under the instrument panel, behind glove box, right of the HVAC assembly	• *Right Passenger Components (Crew Cab)* • *Right Passenger Components (Extended Cab)*	• *K69 Transfer Case Control Module X1* • *K69 Transfer Case Control Module X2* • *K69 Transfer Case Control Module X3*
K71	Transmission Control Module	MYB/MT5	(MYB) Underneath the vehicle, inside the automatic transmission assembly, part of the control solenoid valve, (MT5) In the engine compartment, to the right of the engine next to the Engine Control Module	*Right Rear of Engine Compartment Components*	*K71 Transmission Control Module*
K73	Telematics Communication Interface Control Module	UE1	In the passenger compartment, above the right kick panel, behind the instrument panel I-beam	• *Right Passenger Components (Crew Cab)* • *Right Passenger Components (Extended Cab)*	• *K73 Telematics Communication Interface Control Module X1* • *K73 Telematics Communication Interface Control Module X5 (UE1)* • *K73 Telematics Communication Interface Control Module X7 (UE1)*

Master Electrical Component List (cont'd)

Code	Name	Option	Location	Locator View	Connector End View
K77	Remote Control Door Lock Receiver	—	In the passenger compartment, above the right rear of the headliner	• *Headliner Components (Crew Cab)* • *Headliner Components (Extended Cab)*	*K77 Remote Control Door Lock Receiver*
K85	Passenger Presence Module	—	In the passenger compartment, under the front of the front passenger seat cushion	*Passenger Seat Components*	*K85 Passenger Presence Module*
K89	Immobilizer Control Module	—	In the passenger compartment, on the steering column, near the key cylinder	*Front of the Instrument Panel Components*	*K89 Immobilizer Control Module*
K111	Fuel Pump Driver Control Module	LCV	Under the vehicle, mounted to the bracket above the spare tire	*Underbody Components (2 of 2)*	*K111 Fuel Pump Driver Control Module*
K115	Reductant Control Module	LWN	Under the vehicle, Above and behind the rear axle, mounted to the reductant fluid reservoir assembly	*Underbody Components (LWN) (5 of 6)*	• *K115 Reductant Control Module X1* • *K115 Reductant Control Module X2 (LWN)*
K133	Trailer Brake Power Control Module	JL1	Under the vehicle, mounted to the bracket above the spare tire, near the chassis control module	*Underbody Components (LWN) (6 of 6)*	*K133 Trailer Brake Power Control Module*
K182	Parking Assist Control Module	—	In passenger compartment, behind left side of instrument panel	*Behind the Instrument Panel Components*	• *K182 Parking Assist Control Module X1* • *K182 Parking Assist Control Module X2*
M4	Air Inlet Door Actuator	—	In the passenger compartment, behind the instrument panel glove box	*HVAC Assembly Components*	*M4 Air Inlet Door Actuator*
M6	Air Temperature Door Actuator	—	In the passenger compartment, part of HVAC module, behind the instrument panel	*HVAC Assembly Components*	*M6 Air Temperature Door Actuator*
M7	Transmission Shift Lock Control Solenoid Actuator	MYB	In the passenger compartment, center near front, on the shift lever within floor console	—	—
M9	Brake Booster Pump Motor	LGZ	In the engine compartment, near front, right of center, mounted to the front of bank 1 cylinder head	—	*M9 Brake Booster Pump Motor*
M26	Front Axle Engagement Actuator	NQ6/NQ7	Under the vehicle, on the rear of the transfer case	*Underbody Components (1 of 2)*	*M26 Front Axle Engagement Actuator*
M37	Mode Door Actuator	—	In the passenger compartment, behind the instrument panel, on the upper left side of the HVAC module	*HVAC Assembly Components*	*M37 Mode Door Actuator*
M38	Power Steering Motor	—	On the underbody, lower front of engine compartment, on the power steering rack assembly	*Underbody Components (1 of 2)*	—

Master Electrical Component List (cont'd)

Code	Name	Option	Location	Locator View	Connector End View
M51D	Seat Horizontal Motor - Driver	—	In the passenger compartment, under the center of the driver seat, between the seat tracks	*Driver Seat Components*	*M51D Seat Horizontal Motor - Driver*
M51P	Seat Horizontal Motor - Passenger	AAQ	In the passenger compartment, under the center of the passenger seat, between the seat tracks	*Passenger Seat Components*	*M51P Seat Horizontal Motor - Passenger (AAQ)*
M52D	Seat Lumbar Support Horizontal Motor - Driver	AL9	In the passenger compartment, part of the driver seat back	*Driver Seat Back Components*	*M52D Seat Lumbar Support Horizontal Motor - Driver (AL9)*
M52P	Seat Lumbar Support Horizontal Motor - Passenger	AAQ	In the passenger compartment, part of the passenger seat back	*Passenger Seat Back Components*	*M52P Seat Lumbar Support Horizontal Motor - Passenger (AAQ)*
M55D	Seat Rear Vertical Motor - Driver	—	In the passenger compartment, under the front of the driver seat, next to the left seat track	*Driver Seat Components*	*M55D Seat Rear Vertical Motor - Driver*
M55P	Seat Rear Vertical Motor - Passenger	AAQ	In the passenger compartment, under the front of the passenger seat, next to the left seat track	*Passenger Seat Components*	*M55P Seat Rear Vertical Motor - Passenger (AAQ)*
M64	Starter Motor	—	(LCV) In the engine compartment, lower right rear of the engine	• *Left Front of the Engine Components (LGZ)* • *Left Front of the Engine Components (LWN)* • *Right Rear of Engine Components (LCV)*	• *M64 Starter Motor X1* • *M64 Starter Motor X2 (LCV)* • *M64 Starter Motor X2 (LGZ)* • *M64 Starter Motor X2 (LWN)*
M73A	Seat Blower Motor - Driver Back	KA1	In the passenger compartment, internal to driver seat	—	*M73A Seat Blower Motor - Driver Back (KU1)*
M73B	Seat Blower Motor - Passenger Back	KA1	In the passenger compartment, internal to passenger seat	—	*M73B Seat Blower Motor - Passenger Back (KU3)*
M73C	Seat Blower Motor - Driver Cushion	KA1	In the passenger compartment, internal to driver seat	—	*M73C Seat Blower Motor - Driver Cushion (KU1)*
M73D	Seat Blower Motor - Passenger Cushion	KA1	In the passenger compartment, internal to passenger seat	—	*M73D Seat Blower Motor - Passenger Cushion (KU3)*
M74D	Window Motor - Driver	—	In the passenger compartment, behind the driver door trim panel, at the center of the door	*Driver Door Components*	*M74D Window Motor - Driver*
M74LR	Window Motor - Left Rear	Crew Cab	In the passenger compartment, center of the left rear door, behind the door trim panel	*Left Rear Door Components (Crew Cab)*	*M74LR Window Motor - Left Rear (Crew Cab)*
M74P	Window Motor - Passenger	—	In the passenger compartment, behind the front passenger door trim panel, at the center of the door	*Passenger Door Components*	*M74P Window Motor - Passenger*

Master Electrical Component List (cont'd)

Code	Name	Option	Location	Locator View	Connector End View
M74RR	Window Motor - Right Rear	Crew Cab	In the passenger compartment, center of the right rear door, behind the door trim panel	*Right Rear Door Components (Crew Cab)*	*M74RR Window Motor - Right Rear*
M75	Windshield Wiper Motor	—	At the left rear of the engine compartment, near the windshield	*Left Side of Engine Compartment Components*	*M75 Windshield Wiper Motor*
M77D	Outside Rearview Mirror Motor - Driver	DL6/DL9	Outside of the vehicle, on driver door, in the driver door mirror	—	—
M77P	Outside Rearview Mirror Motor - Passenger	DL6/DL9	Outside of the vehicle, on passenger door, in the passenger door mirror	—	—
M93	Key Capture Solenoid Actuator	MYB	In the passenger compartment, left front of instrument panel, attached to the right side of steering column	*Front of the Instrument Panel Components*	*M93 Key Capture Solenoid Actuator*
M96A	Active Grille Air Shutter 1 Actuator	LCV/LGZ	At front of the vehicle, center, behind upper grille	*Front of Engine Compartment Components*	*M96A Active Grille Air Shutter 1 Actuator*
M103	Turbocharger Vane Position Actuator	LWN	In the engine compartment, right side of engine, mounted to the exhaust manifold, forward of the catalytic converter	*Right Rear of Engine Components (LWN)*	*M103 Turbocharger Vane Position Actuator*
P2	Transmission Shift Lever Position Indicator	MYB	In the passenger compartment, center, near front, at top of floor console, near the shift lever	*Center Console Components (MYB)*	*P2 Transmission Shift Lever Position Indicator*
P3	Backup Alarm	8S3	On the vehicle exterior, at the right rear of the vehicle, near the right rear wheel speed sensor breakout	• *Chassis Components (Crew Cab)* • *Chassis Components (Extended Cab)* • *Underbody Components (LWN) (6 of 6)*	*P3 Backup Alarm*
P13	Horn Assembly	—	In the engine compartment, lower left corner of the radiator support	*Right Front of Engine Compartment Components*	*P13 Horn Assembly*
P14	Passenger Air Bag Disabled Indicator	—	In the passenger compartment, center of the overhead console	• *Headliner Components (Crew Cab)* • *Headliner Components (Extended Cab)*	*P14 Passenger Air Bag Disabled Indicator*
P16	Instrument Cluster	—	In the passenger compartment, at the top of the driver side of the instrument panel, above the steering column	*Front of the Instrument Panel Components*	• *P16 Instrument Cluster (UDC)* • *P16 Instrument Cluster (UDD)*

Master Electrical Component List (cont'd)

Code	Name	Option	Location	Locator View	Connector End View
P17	Info Display Module	—	In the passenger compartment, at the top center of the instrument panel, above the radio controls	*Front of the Instrument Panel Components*	• *P17 Info Display Module X1 (IOR)* • *P17 Info Display Module X1 (IOS/IOT)* • *P17 Info Display Module X2 (IOR)* • *P17 Info Display Module X2 (IOS/IOT)*
P19AG	Speaker - Left Front Door	—	In the passenger compartment, at the front of the left front door, behind the door trim panel	*Driver Door Components*	*P19AG Speaker - Left Front Door*
P19AH	Speaker - Right Front Door	—	In the passenger compartment, at the front of the right front door, behind the door trim panel	*Passenger Door Components*	*P19AH Speaker - Right Front Door*
P19AL	Speaker - Left Rear Door	—	In the passenger compartment, in the lower left rear door, behind the door panel	• *Left Rear Door Components (Crew Cab)* • *Left Rear Door Components (Extended Cab)*	*P19AL Speaker - Left Rear Door*
P19AM	Speaker - Right Rear Door	—	In the passenger compartment, in the lower right rear door, behind the door panel	• *Right Rear Door Components (Crew Cab)* • *Right Rear Door Components (Extended Cab)*	*P19AM Speaker - Right Rear Door*
P19B	Speaker - Center Instrument Panel	UQA	In the passenger compartment, center of the instrument panel	*Front of the Instrument Panel Components*	*P19B Speaker - Center Instrument Panel (UQA)*
P19H	Speaker - Left Front Tweeter	—	In the passenger compartment, in the upper left of the instrument panel	*Front of the Instrument Panel Components*	• *P19H Speaker - Left Front Tweeter (UQ3)* • *P19H Speaker - Left Front Tweeter (UQA)*
P19V	Speaker - Right Front Tweeter	—	In the passenger compartment, in the upper right of the instrument panel	*Front of the Instrument Panel Components*	• *P19V Speaker - Right Front Tweeter (UQ3)* • *P19V Speaker - Right Front Tweeter (UQA)*
P43	Collision Alert Indicators	UEU	In the passenger compartment, behind the upper left of the instrument panel, above the instrument cluster	*Behind the Instrument Panel Components*	• *P43 Collision Alert Indicators* • *P43 Collision Alert Indicators*
P46	Mobile Device Wireless Charger Indicators	K4C	In the passenger compartment, on the center console	—	*P46 Mobile Device Wireless Charger Indicators*

Master Electrical Component List (cont'd)

Code	Name	Option	Location	Locator View	Connector End View
Q2	A/C Compressor Clutch	—	In the engine compartment, on the lower left front of the engine	• *Left Front of the Engine Components (LCV)* • *Left Front of the Engine Components (LGZ)* • *Left Front of the Engine Components (LWN)*	*Q2 A/C Compressor Clutch*
Q5	Brake Pressure Modulator	—	In the engine compartment, right rear, behind strut tower, attached to the electronic brake control module	—	—
Q6A	Camshaft Position Actuator Solenoid Valve - Bank 1 Exhaust	LGZ	In the engine compartment, near front, right of center, below of the bank 1 exhaust camshaft position sensor	—	*Q6A Camshaft Position Actuator Solenoid Valve - Bank 1 Exhaust*
Q6B	Camshaft Position Actuator Solenoid Valve - Bank 1 Intake	LGZ	In the engine compartment, near front, right of center, between the bank 1 camshaft position sensors	—	*Q6B Camshaft Position Actuator Solenoid Valve - Bank 1 Intake*
Q6C	Camshaft Position Actuator Solenoid Valve - Bank 2 Exhaust	LGZ	In the engine compartment, near front, left of center, below of the bank 2 exhaust camshaft position sensor	*Left Front of the Engine Components (LGZ)*	*Q6C Camshaft Position Actuator Solenoid Valve - Bank 2 Exhaust*
Q6D	Camshaft Position Actuator Solenoid Valve - Bank 2 Intake	LGZ	In the engine compartment, near front, left of center, between the bank 2 camshaft position sensors	*Left Front of the Engine Components (LGZ)*	*Q6D Camshaft Position Actuator Solenoid Valve - Bank 2 Intake*
Q6E	Camshaft Position Actuator Solenoid Valve - Exhaust	LCV	In the engine compartment, front, left of center, mounted to camshaft cover on left side	*Left Front of the Engine Components (LCV)*	*Q6E Camshaft Position Actuator Solenoid Valve - Exhaust*
Q6F	Camshaft Position Actuator Solenoid Valve - Intake	LCV	In the engine compartment, front, right of center, mounted to camshaft cover on right side	*Top of Engine Components (LCV)*	*Q6F Camshaft Position Actuator Solenoid Valve - Intake*
Q8	Control Solenoid Valve Assembly	MYB	Underneath the vehicle, inside the automatic transmission assembly	*Automatic Transmission Components (MYB with NQ6/NQ7)*	• *Q8 Control Solenoid Valve Assembly X1* • *Q8 Control Solenoid Valve Assembly X2 (MYB)* • *Q8 Control Solenoid Valve Assembly X3 (MYB)*
Q9F	Differential Lock Actuator - Front	BPH	Under the vehicle, on the front axle	—	*Q9F Differential Lock Actuator - Front*
Q9R	Differential Lock Actuator - Rear	BPH	Under the vehicle, on the rear axle	—	• *Q9R Differential Lock Actuator - Rear* • *Q9R Differential Lock Actuator - Rear*

Master Electrical Component List (cont'd)

Code	Name	Option	Location	Locator View	Connector End View
Q12	Evaporative Emission Purge Solenoid Valve	—	(LCV) In the engine compartment, right side, on the intake manifold cylinder 1	• *Left Front of the Engine Components (LGZ)* • *Right Rear of Engine Components (LCV)* • *Right Rear of Engine Components (LGZ)*	*Q12 Evaporative Emission Purge Solenoid Valve*
Q13	Evaporative Emission Vent Solenoid Valve	—	On the underbody, at the top left side of the fuel tank on the evaporative emissions canister	• *Chassis Components (Crew Cab)* • *Chassis Components (Extended Cab)*	*Q13 Evaporative Emission Vent Solenoid Valve*
Q14	Exhaust Gas Recirculation Valve	LWN	In the engine compartment, right rear of engine, near intake manifold	*Left Front of the Engine Components (LWN)*	*Q14 Exhaust Gas Recirculation Valve*
Q17A	Fuel Injector 1	LCV/LWN	(LCV/LWN) In the engine compartment, right of center, near front, mounted to the cylinder head at cylinder 1	• *Right Rear of Engine Components (LWN)* • *Right Top of Engine Components (LCV)* • *Top of Engine Components (LGZ)*	• *Q17A Fuel Injector 1 (LCV)* • *Q17A Fuel Injector 1 (LGZ)* • *Q17A Fuel Injector 1 (LWN)*
Q17B	Fuel Injector 2	LCV/LWN	(LCV/LWN) In the engine compartment, right of center, near middle, mounted to the cylinder head at cylinder 2	• *Right Rear of Engine Components (LWN)* • *Right Top of Engine Components (LCV)* • *Top of Engine Components (LGZ)*	• *Q17B Fuel Injector 2 (LCV)* • *Q17B Fuel Injector 2 (LGZ)* • *Q17B Fuel Injector 2 (LWN)*
Q17C	Fuel Injector 3	LCV/LWN	(LCV/LWN) In the engine compartment, right of center, near middle, mounted to the cylinder head at cylinder 3	• *Right Rear of Engine Components (LWN)* • *Right Top of Engine Components (LCV)* • *Top of Engine Components (LGZ)*	• *Q17C Fuel Injector 3 (LCV)* • *Q17C Fuel Injector 3 (LGZ)* • *Q17C Fuel Injector 3 (LWN)*

Master Electrical Component List (cont'd)

Code	Name	Option	Location	Locator View	Connector End View
Q17D	Fuel Injector 4	LCV/LWN	(LCV/LWM) In the engine compartment, right of center, near rear, mounted to the cylinder head at cylinder 4	• *Right Rear of Engine Components (LWN)* • *Right Top of Engine Components (LCV)* • *Top of Engine Components (LGZ)*	• *Q17D Fuel Injector 4 (LCV)* • *Q17D Fuel Injector 4 (LGZ)* • *Q17D Fuel Injector 4 (LWN)*
Q17E	Fuel Injector 5	LGZ	In the engine compartment, near middle rear, on the inboard side of bank 1 cylinder head, above cylinder 5	*Top of Engine Components (LGZ)*	*Q17E Fuel Injector 5 (LGZ)*
Q17F	Fuel Injector 6	LGZ	In the engine compartment, near middle rear, on the inboard side of bank 2 cylinder head, above cylinder 6	*Top of Engine Components (LGZ)*	*Q17F Fuel Injector 6 (LGZ)*
Q18A	Fuel Pressure Regulator 1	LWN	In the engine compartment, lower left of engine, attached to fuel injection pump	*Left Front of the Engine Components (LWN)*	*Q18A Fuel Pressure Regulator 1*
Q18B	Fuel Pressure Regulator 2	LWN	In the engine compartment, left of engine, between throttle body and cylinder head	*Left Front of the Engine Components (LWN)*	*Q18B Fuel Pressure Regulator 2*
Q20	Intake Air Flow Valve	LWN	In the engine compartment, front, mounted to the Left side of the intake manifold	*Left Front of the Engine Components (LWN)*	*Q20 Intake Air Flow Valve*
Q27A	Pressure Control Solenoid Valve 1	MYB	Under the vehicle, inside the automatic transmission, part of the control solenoid valve assembly	—	—
Q27B	Pressure Control Solenoid Valve 2	MYB	Under the vehicle, inside the automatic transmission, part of the control solenoid valve assembly	—	—
Q27C	Pressure Control Solenoid Valve 3	MYB	Under the vehicle, inside the automatic transmission, part of the control solenoid valve assembly	—	—
Q27D	Pressure Control Solenoid Valve 4	MYB	Under the vehicle, inside the automatic transmission, part of the control solenoid valve assembly	—	—
Q27E	Pressure Control Solenoid Valve 5	MYB	Under the vehicle, inside the automatic transmission, part of the control solenoid valve assembly	—	—
Q32A	Shift Solenoid Valve 1	MYB	Under the vehicle, inside the automatic transmission, part of the control solenoid valve assembly	—	—
Q32B	Shift Solenoid Valve 2	MYB	Under the vehicle, inside the automatic transmission, part of the control solenoid valve assembly	—	—

Master Electrical Component List (cont'd)

Code	Name	Option	Location	Locator View	Connector End View
Q38	Throttle Body	—	(LCV) In the engine compartment, front, mounted to the right side of the intake manifold	• *Left Front of the Engine Components (LGZ)* • *Top of Engine Components (LCV)*	*Q38 Throttle Body*
Q39A	Torque Converter Clutch Pressure Control Solenoid Valve	MYB	Under the vehicle, inside the automatic transmission, part of the control solenoid valve assembly	—	—
Q44	Engine Oil Pressure Control Solenoid Valve	LCV	In the engine compartment, left rear, on side of the engine block	• *Right Bottom of Engine Components (LGZ)* • *Right Rear of Engine Components (LCV)*	• *Q44 Engine Oil Pressure Control Solenoid Valve (LCV)* • *Q44 Engine Oil Pressure Control Solenoid Valve (LGZ)*
Q46	A/C Compressor Solenoid Valve	—	In the engine compartment, front, bottom left of the engine, internal to the A/C compressor	• *Left Front of the Engine Components (LCV)* • *Left Front of the Engine Components (LGZ)* • *Left Front of the Engine Components (LWN)*	*Q46 A/C Compressor Solenoid Valve*
Q47	Exhaust Gas Recirculation Cooler Bypass Solenoid Valve	LWN	In the engine compartment, top of cylinder head, near front of the engine, right of the oil filler neck	*Right Bottom of Engine Components (LWN)*	*Q47 Exhaust Gas Recirculation Cooler Bypass Solenoid Valve*
Q61	Reductant Injector	LWN	On the underbody, right, mounted to the inlet side of the nitrogen oxides catalytic converter	*Underbody Components (LWN) (1 of 6)*	*Q61 Reductant Injector*
Q67	Exhaust After-treatment Fuel Injector	LWN	On the underbody, center of vehicle, mounted to the inboard side of the right frame rail	*Underbody Components (LWN) (2 of 6)*	*Q67 Exhaust After-treatment Fuel Injector*
Q77A	Transmission Control Solenoid Valve 1	M5T	Internal to the transmission	—	*Q77A Transmission Control Solenoid Valve 1 (M5T)*
Q77B	Transmission Control Solenoid Valve 2	M5T	Internal to the transmission	—	*Q77B Transmission Control Solenoid Valve 2 (M5T)*
Q77C	Transmission Control Solenoid Valve 3	M5T	Internal to the transmission	—	*Q77C Transmission Control Solenoid Valve 3 (M5T)*
Q77D	Transmission Control Solenoid Valve 4	M5T	Internal to the transmission	—	*Q77D Transmission Control Solenoid Valve 4 (M5T)*
Q77E	Transmission Control Solenoid Valve 5	M5T	Internal to the transmission	—	*Q77E Transmission Control Solenoid Valve 5 (M5T)*
Q77F	Transmission Control Solenoid Valve 6	M5T	Internal to the transmission	—	*Q77F Transmission Control Solenoid Valve 6 (M5T)*

Master Electrical Component List (cont'd)

Code	Name	Option	Location	Locator View	Connector End View
Q77G	Transmission Control Solenoid Valve 7	M5T	Internal to the transmission	—	*Q77G Transmission Control Solenoid Valve 7 (M5T)*
Q77H	Transmission Control Solenoid Valve 8	M5T	Internal to the transmission	—	*Q77H Transmission Control Solenoid Valve 8 (M5T)*
Q77J	Transmission Control Solenoid Valve 9	M5T	Internal to the transmission	—	*Q77J Transmission Control Solenoid Valve 9 (M5T)*
Q83A	Valve Lifter Oil Solenoid Valve - Bank 1	LGZ	In the engine compartment, on bank 1 valve cover	—	*Q83A Valve Lifter Oil Solenoid Valve - Bank 1*
Q83B	Valve Lifter Oil Solenoid Valve - Bank 2	LGZ	In the engine compartment, on bank 2 valve cover	*Left Front of the Engine Components (LGZ)*	*Q83B Valve Lifter Oil Solenoid Valve - Bank 2*
Q84A	Camshaft Position Actuator Park Lock Solenoid Valve - Bank 1 Intake	LGZ	In the engine compartment, on front cover, forward of bank 1 cylinder head	*Left Front of the Engine Components (LGZ)*	*Q84A Camshaft Position Actuator Park Lock Solenoid Valve - Bank 1 Intake*
Q84B	Camshaft Position Actuator Park Lock Solenoid Valve - Bank 2 Intake	LGZ	In the engine compartment, on front cover, forward of bank 2 cylinder head	*Left Front of the Engine Components (LGZ)*	*Q84B Camshaft Position Actuator Park Lock Solenoid Valve - Bank 2 Intake*
Q85	Cooling Fan Clutch	LWN	At the front of the engine compartment, on center shaft of cooling fan assembly	*Left Side of Engine Components (LWN)*	*Q85 Cooling Fan Clutch (LWN)*
R6A	Terminating Resistor - High Speed Bus	—	(Crew Cab) Under the vehicle, rear right side, taped in the harness above the spare tire and across from the chassis control module	• *Chassis Components (Crew Cab)* • *Chassis Components (Extended Cab)* • *Chassis Underbody Components (Extended Cab)*	*R6A Terminating Resistor - High Speed Bus*
R10	Cooling Fan Resistor	LWN	In the engine compartment, left, on battery tray in front of the battery	*Left Side of Engine Compartment Components*	*R10 Cooling Fan Resistor*
S2A	Transmission Manual Shift Switch - Up/Down	MYB	In the passenger compartment, part of the transmission shift lever	*Center Console Components (MYB)*	—
S3	Transmission Shift Lever	MYB	In the passenger compartment, center near front, within the floor console	*Center Console Components (MYB)*	*S3 Transmission Shift Lever (MYB/M5T)*
S13D	Door Lock Switch - Driver	ATG	On driver door, upper, forward of the release handle on the door trim	*Driver Door Components*	*S13D Door Lock Switch - Driver*
S13P	Door Lock Switch - Passenger	ATG	On passenger door, upper, forward of the release handle on the door trim	*Passenger Door Components*	*S13P Door Lock Switch - Passenger*
S30	Headlamp Switch	—	In the passenger compartment, left of the steering column	*Front of the Instrument Panel Components*	*S30 Headlamp Switch*
S32D	Seat Heating Switch - Driver	KA1	In the passenger compartment, at the lower center of the instrument panel, below the HVAC controls	*Front of the Instrument Panel Components*	*S32D Seat Heating Switch - Driver*

Master Electrical Component List (cont'd)

Code	Name	Option	Location	Locator View	Connector End View
S32P	Seat Heating Switch - Passenger	KA1	In the passenger compartment, at the lower center of the instrument panel, below the HVAC controls	*Front of the Instrument Panel Components*	*S32P Seat Heating Switch - Passenger*
S33	Horn Switch	—	In the passenger compartment, in the center of the steering wheel, behind the driver side air bag	—	• *S33 Horn Switch X1* • *S33 Horn Switch X2*
S39	Ignition Switch	—	In the passenger compartment, behind the steering wheel, on the right side of the steering column	*Front of the Instrument Panel Components*	*S39 Ignition Switch*
S48A	Multifunction Switch - Instrument Panel	—	In the passenger compartment, in the center of the instrument panel, below the HVAC controls	*Front of the Instrument Panel Components*	*S48A Multifunction Switch - Instrument Panel*
S51	Telematics Button Assembly	UE1	In the passenger compartment, part of the inside rearview mirror	—	—
S52	Outside Rearview Mirror Switch	DL6/DL9	In the passenger compartment, on the driver door trim panel	*Driver Door Components*	*S52 Outside Rearview Mirror Switch*
S64D	Seat Adjuster Switch - Driver	—	In the passenger compartment, mounted to the outboard side of the driver seat cushion	*Driver Seat Components*	*S64D Seat Adjuster Switch - Driver*
S64P	Seat Adjuster Switch - Passenger	AAQ	In the passenger compartment, mounted to the outboard side of the passenger seat cushion	*Passenger Seat Components*	*S64P Seat Adjuster Switch - Passenger (AAQ)*
S65D	Seat Lumbar Support Switch - Driver	—	In the passenger compartment, mounted to the outboard side of the driver seat cushion	*Driver Seat Components*	*S65D Seat Lumbar Support Switch - Driver*
S65P	Seat Lumbar Support Switch - Passenger	—	In the passenger compartment, mounted to the outboard side of the passenger seat cushion	*Passenger Seat Components*	*S65P Seat Lumbar Support Switch - Passenger (AT9)*
S70E	Steering Wheel Controls Switch - Radio Presets	W1Y	In the passenger compartment, on the left rear side of the steering wheel	*Steering Column Components*	*S70E Steering Wheel Controls Switch - Radio Presets*
S70F	Steering Wheel Controls Switch - Radio Volume	W1Y	In the passenger compartment, on the right rear side of the steering wheel	*Steering Column Components*	*S70F Steering Wheel Controls Switch - Radio Volume (W1Y)*
S70L	Steering Wheel Controls Switch - Left	—	In the passenger compartment, on the left side of the steering wheel	*Steering Column Components*	*S70L Steering Wheel Controls Switch - Left*
S70R	Steering Wheel Controls Switch - Right	—	In the passenger compartment, on the right side of the steering wheel	*Steering Column Components*	*S70R Steering Wheel Controls Switch - Right*
S76	Trailer Brake Control Switch	JL1	In the passenger compartment, left of the steering column	*Front of the Instrument Panel Components*	*S76 Trailer Brake Control Switch (JL1)*
S77	Transfer Case Shift Control Switch	NQ6/NQ7	In the passenger compartment, left of the steering column	*Front of the Instrument Panel Components*	*S77 Transfer Case Shift Control Switch*

Master Electrical Component List (cont'd)

Code	Name	Option	Location	Locator View	Connector End View
S78	Turn Signal/Multifunction Switch	—	In the passenger compartment, on the left side of the steering column	- *Front of the Instrument Panel Components* - *Steering Column Components*	*S78 Turn Signal/ Multifunction Switch*
S79D	Window Switch - Driver	—	In the passenger compartment, on the driver door trim panel, center of the door	*Driver Door Components*	*S79D Window Switch - Driver*
S79LR	Window Switch - Left Rear	Crew Cab	In the passenger compartment, at the center of the left rear door, on the door trim panel	*Left Rear Door Components (Crew Cab)*	*S79LR Window Switch - Left Rear (Crew Cab)*
S79P	Window Switch - Passenger	—	In the passenger compartment, on the passenger door trim panel, center of the door	*Passenger Door Components*	*S79P Window Switch - Passenger*
S79RR	Window Switch - Right Rear	Crew Cab	In the passenger compartment, at the center of the right rear door, on the door trim panel	*Right Rear Door Components (Crew Cab)*	*S79RR Window Switch - Right Rear*
S82	Windshield Wiper/ Washer Switch	—	In the passenger compartment, on the right side of the steering column	- *Front of the Instrument Panel Components* - *Steering Column Components*	*S82 Windshield Wiper/Washer Switch*
T2	Antenna	—	In the passenger compartment, part of the remote control door lock receiver	—	—
T2RR	Antenna - Roof Rear	—	On the rear roof	—	*T2RR Antenna - Roof Rear*
T3	Audio Amplifier	UQA	In the rear passenger compartment, mounted behind the glove box	*Behind the Instrument Panel Components*	- *T3 Audio Amplifier X1* - *T3 Audio Amplifier X2* - *T3 Audio Amplifier X3* - *T3 Audio Amplifier X4*
T4G	Cellular Phone, Navigation, and Digital Radio Antenna	UE1	Outside the vehicle, at the rear of the roof	*Rear of Vehicle Components*	*T4G Cellular Phone, Navigation, and Digital Radio Antenna*
T4S	Wireless Communication Antenna - Bluetooth	VV4	In the passenger compartment, right side of the instrument panel, behind the glove box, attached to the telematics communication interface control module	—	—
T8A	Ignition Coil 1	—	(LCV) In the engine compartment, center near front, mounted to cylinder head, above cylinder 1	- *Top of Engine Components (LCV)* - *Top of Engine Components (LGZ)*	- *T8A Ignition Coil 1 (LCV)* - *T8A Ignition Coil 1 (LGZ)*

Master Electrical Component List (cont'd)

Code	Name	Option	Location	Locator View	Connector End View
T8B	Ignition Coil 2	—	(LCV) In the engine compartment, center near middle, mounted to cylinder head, above cylinder 2	• *Top of Engine Components (LCV)* • *Top of Engine Components (LGZ)*	• *T8B Ignition Coil 2 (LCV)* • *T8B Ignition Coil 2 (LGZ)*
T8C	Ignition Coil 3	—	(LCV) In the engine compartment, center near middle, mounted to cylinder head, above cylinder 3	• *Top of Engine Components (LCV)* • *Top of Engine Components (LGZ)*	• *T8C Ignition Coil 3 (LCV)* • *T8C Ignition Coil 3 (LGZ)*
T8D	Ignition Coil 4	—	(LCV) In the engine compartment, center near rear, mounted to cylinder head, above cylinder 4	• *Top of Engine Components (LCV)* • *Top of Engine Components (LGZ)*	• *T8D Ignition Coil 4 (LCV)* • *T8D Ignition Coil 4 (LGZ)*
T8E	Ignition Coil 5	LGZ	In the engine compartment, right of center, near rear, above cylinder 5	*Top of Engine Components (LGZ)*	*T8E Ignition Coil 5*
T8F	Ignition Coil 6	LGZ	In the engine compartment, left of center, near rear, above cylinder 6	*Top of Engine Components (LGZ)*	*T8F Ignition Coil 6*
T12	Automatic Transmission Assembly	MYB	In the engine compartment, underneath the first row seating, rear of the engine	—	—
T22	Mobile Device Wireless Charger Module	K4C	In the passenger compartment, under the center console	—	• *T22 Mobile Device Wireless Charger Module* • *T22 Mobile Device Wireless Charger Module*
W8	Blunt Cut - Trailer Provision	—	Outside of vehicle, under left rear, approximatley 40 cm (15.7 in) from X400	—	—
W24	Blunt Cut - Trailer Brakes Provision	Z82	In the passenger compartment, behind the left front kick panel, taped to the harness next to X200 and X202	—	—
W26	Blunt Cut - Cargo Lamp Provision	S0Y	At rear of vehicle, in left tail lamp breakout	—	—
X50A	Fuse Block - Underhood	—	In the engine compartment, forward left of the engine, next to the battery	*Left Side of Engine Compartment Components*	*Electrical Center Identification Views on page 5-159*
X50D	Fuse Block - Battery	—	In the engine compartment, left front, on top of the battery (+) post	*Left Side of Engine Compartment Components*	*Electrical Center Identification Views on page 5-159*
X51A	Fuse Block - Instrument Panel	—	In the passenger compartment, below right side of the instrument panel, behind access cover on right front kick panel	• *Right Passenger Components (Crew Cab)* • *Right Passenger Components (Extended Cab)*	*Electrical Center Identification Views on page 5-159*

Master Electrical Component List (cont'd)

Code	Name	Option	Location	Locator View	Connector End View
X80A	Accessory Power Receptacle - Center Console 1	—	In the passenger compartment, at the forward left of the center console	• *Center Console Components (N8D)* • *Front of the Instrument Panel Components*	*X80A Accessory Power Receptacle - Center Console 1 (MYB/M5T)*
X80B	Accessory Power Receptacle - Center Console 2	—	In the passenger compartment, at the rear of the center console	• *Center Console Components (MYB)* • *Center Console Components (N8D)*	*X80B Accessory Power Receptacle - Center Console 2*
X83	Auxiliary Audio Input	—	(IO3/IO4 with N8D) In the passenger compartment, in the center console	• *Center Console Components (N8D)* • *Front of the Instrument Panel Components*	• *X83 Auxiliary Audio Input X1* • *X83 Auxiliary Audio Input X1* • *X83 Auxiliary Audio Input X2*
X83R	Auxiliary Audio Input - Rear	IO5/IO6	In the passenger compartment, at the rear of the center console	*Center Console Components (MYB)*	• *X83R Auxiliary Audio Input - Rear X1* • *X83R Auxiliary Audio Input - Rear X2*
X84	Data Link Connector	—	In the passenger compartment, under the driver side of the instrument panel	*Front of the Instrument Panel Components*	*X84 Data Link Connector*
X85	Steering Wheel Air Bag Coil	—	In the passenger compartment, behind the steering wheel, in the upper steering column	*Steering Column Components*	• *X85 Steering Wheel Air Bag Coil X1* • *X85 Steering Wheel Air Bag Coil X2* • *X85 Steering Wheel Air Bag Coil X3* • *X85 Steering Wheel Air Bag Coil X4* • *X85 Steering Wheel Air Bag Coil X5 (UVD)*
X88	Trailer Connector	Z82	On the vehicle exterior, at the rear of the vehicle, left of the license plate	*Rear of Vehicle Components*	*X88 Trailer Connector*
X92C	USB Receptacle - Center Console Rear	—	In the passenger compartment, at the rear of the center console	*Center Console Components (MYB)*	—
X100	Battery Cable Harness to Power Steering Harness (4 cavities)	—	Outside of the vehicle, left front of the front frame crossmember, next to X103	*Body Harness Routing - Center Engine Compartment*	*X100 Battery Cable Harness to Power Steering Harness*

Master Electrical Component List (cont'd)

Code	Name	Option	Location	Locator View	Connector End View
X101	Engine Harness to Body Harness (48 cavities)	—	In the engine compartment, left front of engine, near underhood fuse block next to X102	• *Body Harness Routing - Left Engine Compartment (LCV/LGZ)* • *Body Harness Routing - Left Engine Compartment (LWN)* • *Engine Harness Routing - Front (LGZ)* • *Engine Harness Routing - Left Front (LCV)*	*X101 Engine Harness to Body Harness*
X102	Forward Lamp Harness to Body Harness (48 cavities)	—	In the engine compartment, left front, at left headlamp assembly, in front of underhood fuse block next to X101	• *Body Harness Routing - Left Engine Compartment (LCV/LGZ)* • *Body Harness Routing - Left Engine Compartment (LWN)* • *Forward Lamp Harness Routing - Left Engine Compartment* • *Forward Lamp Harness Routing - Left Engine Compartment (LWN)*	*X102 Forward Lamp Harness to Body Harness*
X103	Chassis Harness to Power Steering Harness (16 cavities)	—	Outside of the vehicle, left front of the front frame crossmember, next to X100	• *Body Harness Routing - Center Engine Compartment* • *Chassis Harness Routing (Crew Cab)* • *Chassis Harness Routing (Extended Cab)* • *Chassis Harness Routing (LWN)*	*X103 Chassis Harness to Power Steering Harness*
X104	Forward Lamp Harness to Forward Lamp Extension Harness (2 cavities)	LCV	In the engine compartment, left front, near left radiator support	*Forward Lamp Harness Routing - Left Engine Compartment*	*X104 Forward Lamp Harness to Forward Lamp Extension Harness*
X105	Forward Lamp Harness to Ambient Temperature Sensor Extension Harness (6 cavities)	—	Outside of the vehicle, forward of left radiator support on front impact bar, below the left headlamp assembly	*Forward Lamp Harness Routing - Left Engine Compartment*	*X105 Forward Lamp Harness to Ambient Temperature Sensor Extension Harness*

Master Electrical Component List (cont'd)

Code	Name	Option	Location	Locator View	Connector End View
X106	Body Harness to Chassis Harness (48 cavities)	—	In the engine compartment, left of engine, near battery, rear of the underhood fuse block	• *Body Harness Routing - Left Engine Compartment (LCV/LGZ)* • *Body Harness Routing - Left Engine Compartment (LWN)* • *Chassis Harness Routing (Crew Cab)* • *Chassis Harness Routing (Extended Cab)* • *Chassis Harness Routing (LWN)*	*X106 Body Harness to Chassis Harness*
X107	Engine Harness to Chassis Harness (48 cavities)	LWN	In the engine compartment, right front, on frame at the right front shock	• *Chassis Harness Routing (LWN)* • *Engine Harness Routing - Right Rear (LWN)*	*X107 Engine Harness to Chassis Harness (LWN)*
X108	Engine Harness to Cooling Fan Harness (6 cavities)	LWN	In the engine compartment, left front of engine, below the a/c compressor	*Engine Harness Routing - Left Front (LWN)*	*X108 Engine Harness to Cooling Fan Harness (LWN)*
X109	Engine Harness to Forward Lamp Harness (4 cavities)	LWN	In the engine compartment, left side of the cooling fan shroud	• *Engine Harness Routing - Left Front (LWN)* • *Forward Lamp Harness Routing - Left Engine Compartment (LWN)*	*X109 Engine Harness to Forward Lamp Harness (LWN)*
X110	Forward Lamp Harness to Left Front Lamp Harness (6 cavities)	—	In the engine compartment, at the rear of the left headlamp assembly	• *Forward Lamp Harness Routing - Left Engine Compartment* • *Forward Lamp Harness Routing - Left Engine Compartment (LWN)*	*X110 Forward Lamp Harness to Left Front Lamp Harness*
X111	Engine Harness to Glow Plug Harness (4 cavities)	LWN	In the engine compartment, above engine, left front, near generator	*Engine Harness Routing - Top (LWN)*	*X111 Engine Harness to Glow Plug Harness (LWN)*
X112	Engine Harness to Intake Manifold Pressure Sensor Jumper Harness	LWN	In the engine compartment, above engine, left front, near generator	*Engine Harness Routing - Top (LWN)*	*X112 Engine Harness to Intake Manifold Pressure Sensor Jumper Harness*
X113	Engine Harness to Oil Pressure Control Solenoid Valve Jumper Harness	LGZ	In engine compartment, near Engine Oil Pressure Control Solenoid Valve	—	*X113 Engine Harness to Oil Pressure Control Solenoid Valve Jumper Harness (LGZ)*
X114	Engine Harness to Temp Sensor Jumper Harness	LGZ	In engine compartment, right front of engine, approximately 6 cm (2.36 in) from Q84A breakout.	—	*X114 Engine Harness to Temp Sensor Jumper Harness*

Master Electrical Component List (cont'd)

Code	Name	Option	Location	Locator View	Connector End View
X119	Engine Harness to Body Harness	NQ6/NQ7	In engine compartment, approximately 24 cm (9.44 in) from J106 breakout.	—	*X119 Engine Harness to Body Harness (NQ6+LGZ)*
X120	Forward Lamp Harness to Right Front Lamp Harness (6 cavities)	—	In the engine compartment, at the rear of the right headlamp assembly	*Forward Lamp Harness Routing - Right Engine Compartment*	*X120 Forward Lamp Harness to Right Front Lamp Harness*
X122	Body Harness to Chassis Harness	LWN	In engine compartment, approximately 17 cm (6.64 in) from M75 breakout.	—	*X122 Body Harness to Chassis Harness (LWN)*
X124	Body Harness to Chassis Harness	LGZ	In engine compartment, approximately 27.1 cm (10.6 in) from X50A fuse bolck - underhood X2 breakout.	—	*X124 Body Harness to Chassis Harness*
X125	Body Harness to Chassis Harness	UVB	In engine compartment, near X106 towards the front of the vehicle	—	*X125 Body Harness to Chassis Harness*
X126	Body Harness to Chassis Harness	LCV	In engine compartment, approximately 27.1 cm (10.6 in) from X50A fuse bolck - underhood X2 breakout.	—	*X126 Body Harness to Chassis Harness (LCV)*
X160	Engine Harness to Fuel Injector Harness (12 cavities)	—	(LCV) In the engine compartment, right of center, forward of middle, mounted to intake manifold	• *Engine Harness Routing - Rear (LGZ)* • *Engine Harness Routing - Right Front Top (LCV)*	• *X160 Engine Harness to Fuel Injector Harness (LCV)* • *X160 Engine Harness to Fuel Injector Harness (LGZ)*
X161	Engine Harness to Fuel Injector - Even Harness (12 cavities)	LGZ	In the engine compartment, rear, right of center, behind right rear of cylinder head cover	*Engine Harness Routing - Rear (LGZ)*	*X161 Engine Harness to Fuel Injector - Even Harness*
X175	Engine Harness to Transmission Case Harness	M5T	Under the vehicle on the transmission.	—	*X175 Engine Harness to Transmission Case Harness*
X176	Transmission Case Harness to Transmission Control Harness	M5T	Internal to the transmission	—	*X176 Transmission Case Harness to Transmission Control Harness (M5T)*
X177	Transmission Case Harness to Speed Sensor Assembly Harness	M5T	Internal to the transmission	—	*X177 Transmission Case Harness to Speed Sensor Assembly Harness (M5T)*
X200	Body Harness to Instrument Panel Harness (48 cavities)	—	In the passenger compartment, left side of the instrument panel, behind the left front kick panel, next to X202	• *Body Harness Routing - Left Front of Passenger Compartment (Crew Cab)* • *Body Harness Routing - Left Front of Passenger Compartment (Extended Cab)* • *Instrument Panel Harness Routing - Rear*	*X200 Body Harness to Instrument Panel Harness*

Master Electrical Component List (cont'd)

Code	Name	Option	Location	Locator View	Connector End View
X202	Body Harness to Instrument Panel Harness (44 cavities)	—	In the passenger compartment, left side of the instrument panel, behind the left front kick panel, next to X200	• *Body Harness Routing - Left Front of Passenger Compartment (Crew Cab)* • *Body Harness Routing - Left Front of Passenger Compartment (Extended Cab)* • *Instrument Panel Harness Routing - Rear*	*X202 Body Harness to Instrument Panel Harness*
X203	Body Harness to Instrument Panel Harness (48 cavities)	—	In the passenger compartment, right side of the instrument panel, below instrument panel fuse block, behind right front kick panel	• *Body Harness Routing - Left Rear of Passenger Compartment (Extended Cab)* • *Body Harness Routing - Right Front of Passenger Compartment (Crew Cab)* • *Body Harness Routing - Right Front of Passenger Compartment (Extended Cab)* • *Instrument Panel Harness Routing - Rear*	*X203 Body Harness to Instrument Panel Harness*
X204	Body Harness to HVAC Harness	LWN	In the passenger compartment, approximately 33.4 cm (13 in) from B107 breakout.	*Body Harness Routing - Left Front of Passenger Compartment (Extended Cab)*	*X204 Body Harness to HVAC Harness (LWN)*
X206	Instrument Panel Harness to HVAC Harness (2 cavities)	C68	In the passenger compartment, left of center, near left side of HVAC Assembly	*Instrument Panel Harness Routing - Rear*	*X206 Instrument Panel Harness to HVAC Harness*
X207	Instrument Panel Harness to Passenger Air Bag Extension Harness (6 cavities)	—	In the passenger compartment, at the top of the passenger side of the instrument panel, near passenger instrument panel air bag	*Instrument Panel Harness Routing - Rear*	*X207 Instrument Panel Harness to Passenger Air Bag Extension Harness*
X208	Instrument Panel Harness to Body Harness	UVB	In the passenger compartment, left front near breakout to X500	*Body Harness Routing - Left Front of Passenger Compartment (Extended Cab)*	• *X208 Instrument Panel Harness to Body Harness* • *X208 Instrument Panel Harness to Body Harness*

Master Electrical Component List (cont'd)

Code	Name	Option	Location	Locator View	Connector End View
X218	Instrument Panel Harness to Body Harness	U2M	In the passenger compartment, right side of the instrument panel, below instrument panel fuse block, behind right front kick panel	• *Body Harness Routing - Left Rear of Passenger Compartment (Extended Cab)* • *Body Harness Routing - Right Front of Passenger Compartment (Crew Cab)* • *Body Harness Routing - Right Front of Passenger Compartment (Extended Cab)* • *Instrument Panel Harness Routing - Rear*	• *X218 Instrument Panel Harness to Body Harness* • *X218 Instrument Panel Harness to Body Harness*
X219	Instrument Panel Harness to Body Harness	Except U2M	In the passenger compartment, right side of the instrument panel, below instrument panel fuse block, behind right front kick panel	• *Body Harness Routing - Left Rear of Passenger Compartment (Extended Cab)* • *Body Harness Routing - Right Front of Passenger Compartment (Crew Cab)* • *Body Harness Routing - Right Front of Passenger Compartment (Extended Cab)* • *Instrument Panel Harness Routing - Rear*	• *X219 Instrument Panel Harness to Body Harness* • *X219 Instrument Panel Harness to Body Harness*
X300	Headliner Harness to Body Harness (16 cavities)	—	In the passenger compartment , top right instrument panel, at the A-pillar	• *Body Harness Routing - Left Rear of Passenger Compartment (Extended Cab)* • *Body Harness Routing - Right Front of Passenger Compartment (Crew Cab)* • *Body Harness Routing - Right Front of Passenger Compartment (Extended Cab)* • *Headliner Harness Routing (Crew Cab)* • *Headliner Harness Routing (Extended Cab)*	• *X300 Headliner Harness to Body Harness* • *X300 Headliner Harness to Body Harness (IOR)* • *X300 Headliner Harness to Body Harness (IOS/IOT)* • *X300 Headliner Harness to Body Harness (UE1)*

Master Electrical Component List (cont'd)

Code	Name	Option	Location	Locator View	Connector End View
X301	Body Harness to Headliner Harness (22 cavities)	—	In the passenger compartment , rear of cab roof, at center high mounted stop lamp	• *Body Harness Routing - Left Rear of Passenger Compartment (Crew Cab)* • *Body Harness Routing - Right Front of Passenger Compartment (Extended Cab)* • *Headliner Harness Routing (Crew Cab)* • *Headliner Harness Routing (Extended Cab)*	*X301 Body Harness to Headliner Harness*
X302	Floor Console Harness to Instrument Panel Harness	—	In the passenger compartment, right of center, under front of the center console	*Center Console Harness Routing*	*X302 Floor Console Harness to Instrument Panel Harness*
X303	Body Harness to Center High Mounted Stop Lamp Harness (3 cavities)	—	In the passenger compartment , rear of cab roof, at center high mounted stop lamp	*Body Harness Routing - Left Rear of Passenger Compartment (Crew Cab)*	*X303 Body Harness to Center High Mounted Stop Lamp Harness*
X304	Body Harness to Antenna Harness	C68	In the passenger compartment, behind the inside rearview mirror, near the windshield	*Headliner Harness Routing (Extended Cab)*	• *X304 Body Harness to Antenna Harness (U2K)* • *X304 Body Harness to Antenna Harness (-U2K)*
X305	Instrument Panel Harness to Floor Console Harness (14 cavities)	—	In the passenger compartment, left of center, beneath the instrument panel, under front of the center console	• *Center Console Harness Routing* • *Instrument Panel Harness Routing - Rear*	*X305 Instrument Panel Harness to Floor Console Harness*
X306	Instrument Panel Harness to Floor Console Harness (8 cavities)	MYB	In the passenger compartment, right of center, under front of the center console	*Center Console Harness Routing*	*X306 Instrument Panel Harness to Floor Console Harness*
X307	Headliner Harness to Body Harness	—	In the passenger compartment , top right instrument panel, at the A-pillar	• *Body Harness Routing - Right Front of Passenger Compartment (Extended Cab)* • *Headliner Harness Routing (Crew Cab)*	*X307 Headliner Harness to Body Harness*
X308	Headliner Harness to Body Harness	—	In the passenger compartment, on the inside of the rear window	—	• *X308 Headliner Harness to Body Harness* • *X308 Headliner Harness to Body Harness*
X309	Body Harness to Antenna Harness	—	In the passenger compartment, on the inside of the rear window	—	*X309 Body Harness to Antenna Harness*

Master Electrical Component List (cont'd)

Code	Name	Option	Location	Locator View	Connector End View
X310	Driver Seat Cushion Harness to Body Harness (23 cavities)	—	In the passenger compartment, under the driver seat	• *Body Harness Routing - Left Front of Passenger Compartment (Crew Cab)* • *Body Harness Routing - Left Front of Passenger Compartment (Extended Cab)* • *Driver Seat Harness Routing*	*X310 Driver Seat Cushion Harness to Body Harness*
X320	Passenger Seat Harness to Body Harness (23 cavities)	—	In the passenger compartment, under the passenger seat	• *Body Harness Routing - Left Rear of Passenger Compartment (Extended Cab)* • *Body Harness Routing - Right Front of Passenger Compartment (Crew Cab)* • *Body Harness Routing - Right Front of Passenger Compartment (Extended Cab)* • *Passenger Seat Harness Routing*	*X320 Passenger Seat Harness to Body Harness*
X400	Rear Fascia Harness to Chassis Harness (10 cavities)	—	Outside of vehicle, under left rear, inboard of the left frame rail, rearward of the left rear leaf spring mount	• *Chassis Harness Routing (Crew Cab)* • *Chassis Harness Routing (LWN)* • *Rear License Plate Harness Routing*	*X400 Rear Fascia Harness to Chassis Harness*
X401	Cargo Lamp Harness to Chassis Harness (2 cavities)	S0Y	At left rear of vehicle, under the bed next to X410	• *Chassis Harness Routing (LWN)* • *Chassis Harness Routing (S0Y)*	*X401 Cargo Lamp Harness to Chassis Harness*
X402	Rear Fascia Harness to Chassis Harness	UVB	At left rear of vehicle, under bed, at the left rear bed rail	—	*X402 Rear Fascia Harness to Chassis Harness*
X410	Tail Lamp - Left Harness to Chassis Harness (6 cavities)	—	At left rear of vehicle, under bed, at the left rear bed rail	• *Chassis Harness Routing (Crew Cab)* • *Chassis Harness Routing (Extended Cab)* • *Chassis Harness Routing (LWN)*	*X410 Tail Lamp - Left Harness to Chassis Harness*

Master Electrical Component List (cont'd)

Code	Name	Option	Location	Locator View	Connector End View
X420	Tail Lamp - Right Harness to Chassis Harness (6 cavities)	—	At right rear of vehicle, under bed, at the right rear bed rail	• *Chassis Harness Routing (Crew Cab)* • *Chassis Harness Routing (Extended Cab)* • *Chassis Harness Routing (LWN)*	*X420 Tail Lamp - Right Harness to Chassis Harness*
X500	Body Harness to Driver Door Harness (34 cavities)	—	In the passenger compartment, left front, in the left front door opening, between hinges on door side	• *Body Harness Routing - Left Front of Passenger Compartment (Crew Cab)* • *Body Harness Routing - Left Front of Passenger Compartment (Extended Cab)* • *Driver Door Harness Routing*	*X500 Body Harness to Driver Door Harness*
X510	Outside Rearview Mirror Harness to Driver Door Harness (10 cavities)	—	At side of vehicle, front of the driver door, behind the door trim on the door	*Driver Door Harness Routing*	*X510 Outside Rearview Mirror Harness to Driver Door Harness*
X600	Body Harness to Passenger Door Harness (34 cavities)	—	In the passenger compartment, right front, in the right front door opening, between hinges on door side	• *Body Harness Routing - Left Rear of Passenger Compartment (Extended Cab)* • *Body Harness Routing - Right Front of Passenger Compartment (Crew Cab)* • *Body Harness Routing - Right Front of Passenger Compartment (Extended Cab)* • *Passenger Door Harness Routing*	*X600 Body Harness to Passenger Door Harness*
X610	Outside Rearview Mirror Harness to Passenger Door Harness (10 cavities)	—	At side of vehicle, front of the passenger door, behind the door trim on the door	*Passenger Door Harness Routing*	*X610 Outside Rearview Mirror Harness to Passenger Door Harness*
X700	Left Rear Door Harness to Body Harness (12 cavities)	—	(Crew Cab) In the passenger compartment, behind the left B-pillar, near the middle	• *Body Harness Routing - Left Rear of Passenger Compartment (Crew Cab)* • *Left Rear Door Harness Routing (Crew Cab)* • *Left Rear Door Harness Routing (Exended Cab)*	• *X700 Left Rear Door Harness to Body Harness (Crew Cab)* • *X700 Left Rear Door Harness to Body Harness (Extended Cab)*

Master Electrical Component List (cont'd)

Code	Name	Option	Location	Locator View	Connector End View
X800	Right Rear Door Harness to Body Harness (20 cavities)	—	(Crew Cab) In the passenger compartment, behind the right B-pillar, near the middle	• *Body Harness Routing - Right Front of Passenger Compartment (Crew Cab)* • *Body Harness Routing - Right Rear of Passenger Compartment (Extended Cab)* • *Right Rear Door Harness Routing (Crew Cab)* • *Right Rear Door Harness Routing (Extended Cab)*	• *X800 Right Rear Door Harness to Body Harness (Crew Cab)* • *X800 Right Rear Door Harness to Body Harness (Extended Cab)*
G100	Battery Negative Harness	—	In the engine compartment, left front, below front of underhood fuse block	*G100 and G101*	—
G101	Battery Negative Harness	—	In the engine compartment, left side, on frame at left front frame cross rail	*G100 and G101*	—
G102	Battery Negative Harness	—	(LCV) In the engine compartment, on the left side of engine block, near the oil filter	• *G102 (LCV)* • *G102 (LGZ)* • *G102 (LWN)*	—
G103	Forward Lamp Harness	—	(LCV/LGZ) In the engine compartment, beneath the left headlamp assembly, mounted to the radiator support	• *G103 (LCV/LGZ), G105 (LWN)* • *G103 (LWN), G105 (LCV/LGZ)*	—
G104	Engine Harness	LGZ	In the engine compartment, on the left front of the engine block, beneath cylinder one	*G104 and G109 (LGZ)*	—
G105	Forward Lamp Harness	—	(LCV/LGZ) In the engine compartment, beneath the right headlamp assembly, mounted to the radiator support	• *G103 (LCV/LGZ), G105 (LWN)* • *G103 (LWN), G105 (LCV/LGZ)*	—
G107	Engine Harness	—	(LCV) In the engine compartment, on the right side of the engine block, rear of generator	• *G102 (LWN)* • *G107 (LCV)* • *G107 (LWN)* • *G107 and G108 (LGZ)*	—
G108	Engine Harness	—	(LCV) In the engine compartment, on the rear of the engine block	• *G107 and G108 (LGZ)* • *G108 (LCV)*	—
G109	Engine Harness	LGZ	In the engine compartment, on the left front of the engine block, beneath cylinder one	*G104 and G109 (LGZ)*	—
G300	Instrument Panel Harness	—	In the passenger compartment, center, beneath the floor console, rear of floor shifter	*G300, G305, and G307*	—
G301	Body harness	—	In the passenger compartment, under the driver seat on the floor pan	• *G301 and G303* • *G301 and G303 (LWN)*	—

Master Electrical Component List (cont'd)

Code	Name	Option	Location	Locator View	Connector End View
G302	Body Harness	—	In the passenger compartment, under the passenger seat on the floor pan	*G302 and G304 (Crew Cab)*	—
G303	Body Harness	—	In the passenger compartment, under the driver seat on the floor pan	• *G301 and G303* • *G301 and G303 (LWN)*	—
G304	Body Harness	—	In the passenger compartment, under the passenger seat on the floor pan	*G302 and G304 (Crew Cab)*	—
G305	Instrument Panel Harness	—	In the passenger compartment, center, beneath the floor console, rear of floor shifter	*G300, G305, and G307*	—
G306	Body Harness	C49	In the passenger compartment, left rear, on upper pillar	*G306 (C49)*	—
G307	Instrument Panel Harness	—	In the passenger compartment, center, beneath the floor console, rear of floor shifter	*G300, G305, and G307*	—
G400	Chassis Harness	—	Under vehicle, outboard of left frame rail, rearward of the fuel filler neck	• *G400 (Crew Cab)* • *G400 (Extended Cab)*	—
G401	Chassis Harness	—	(LCV/LGZ) Under vehicle, outboard of left frame rail, forward of the left leaf spring mount	• *G401 (Crew Cab)* • *G401 (Extended Cab)* • *G401 and G404 (LWN)*	—
G402	Chassis Harness	—	Under vehicle, outboard of right frame rail, forward of the right leaf spring mount	• *G402 (Crew Cab)* • *G402 (Extended Cab)*	—
G404	Chassis Harness	LWN	Under vehicle, outboard of left frame rail, forward of the left leaf spring mount	*G401 and G404 (LWN)*	—
J100	Body Harness	—	(NQ6) In engine compartment, approximately 10.7 cm (4.21 in) from battery current sensor breakout towards rear of vehicle	• *Body Harness Routing - Left Engine Compartment (LCV/LGZ)* • *Body Harness Routing - Left Engine Compartment (LWN)*	—
J101	Body Harness	—	(NQ6/NQ7) In engine compartment, approximately 15.7 cm (6.18 in) from battery current sensor breakout towards rear of vehicle	• *Body Harness Routing - Left Engine Compartment (LCV/LGZ)* • *Body Harness Routing - Left Engine Compartment (LWN)*	—

Master Electrical Component List (cont'd)

Code	Name	Option	Location	Locator View	Connector End View
J102	Body Harness	—	In engine compartment, approximately 4.0 cm (1.57 in) into X106 breakout	• *Body Harness Routing - Left Engine Compartment (LCV/LGZ)* • *Body Harness Routing - Left Engine Compartment (LWN)*	—
J103	Body Harness	—	In engine compartment, approximately 12.5 cm (4.92 in) from battery ground breakout towards body grommet	• *Body Harness Routing - Left Engine Compartment (LCV/LGZ)* • *Body Harness Routing - Left Engine Compartment (LWN)*	—
J104	Chassis Harness	—	In engine compartment, approximately 30.7 cm (12.1 in) from X106 breakout towards front of vehicle	• *Chassis Harness Routing (Crew Cab)* • *Chassis Harness Routing (Extended Cab)* • *Chassis Harness Routing (LWN)*	—
J105	Chassis Harness	—	In engine compartment, approximately 5.4 cm (2.13 in) into X106 breakout	• *Chassis Harness Routing (Crew Cab)* • *Chassis Harness Routing (Extended Cab)* • *Chassis Harness Routing (LWN)*	—
J106	Engine Harness	—	(LCV with NQ6/NQ7) In engine compartment, left front of engine, approximately 3 cm (1.81 in) from X101 breakout towards engine	• *Engine Harness Routing - Front (LGZ)* • *Engine Harness Routing - Left Front (LCV)* • *Engine Harness Routing - Left Front (LWN)*	—
J107	Engine Harness	—	(LCV) In engine compartment, front of engine, approximately 5 cm (1.97 in) from camshaft position actuator solenoid valve exhaust breakout towards manifold absolute pressure sensor breakout	• *Engine Harness Routing - Front (LGZ)* • *Engine Harness Routing - Left Front (LCV)*	—
J108	Engine Harness	LCV	In engine compartment, left front of engine, approximately 11.1 cm (4.37 in) from camshaft position actuator solenoid valve - exhaust breakout towards X101 breakout	*Engine Harness Routing - Left Front (LCV)*	—

Master Electrical Component List (cont'd)

Code	Name	Option	Location	Locator View	Connector End View
J109	Engine Harness	—	(LCV with MYB) In engine compartment, front of engine, approximately 10.9 cm (4.29 in) from camshaft position actuator solenoid valve - exhaust breakout towards manifold absolute pressure sensor breakout	• *Engine Harness Routing - Front (LGZ)* • *Engine Harness Routing - Left Front (LCV)* • *Engine Harness Routing - Right Rear (LWN)*	—
J110	Engine Harness	—	(LCV) In engine compartment, front of engine, approximately 2.5 cm (0.98 in) from camshaft position actuator solenoid valve - exhaust breakout towards manifold absolute pressure sensor breakout	• *Engine Harness Routing - Front (LGZ)* • *Engine Harness Routing - Left Front (LCV)* • *Engine Harness Routing - Left Front (LWN)*	—
J111	Engine Harness	—	(LCV) In engine compartment, front of engine, approximately 13.4 cm (5.28 in) from camshaft position actuator solenoid valve - exhaust breakout towards manifold absolute pressure sensor breakout	• *Engine Harness Routing - Front (LGZ)* • *Engine Harness Routing - Left Front (LCV)* • *Engine Harness Routing - Right Rear (LWN)*	—
J112	Engine Harness	LCV	In engine compartment, right front of engine, approximately 5 cm (1.97 in) from ignition coil 1 breakout towards ignition coil 2 breakout	*Engine Harness Routing - Right Front Top (LCV)*	—
J113	Engine Harness	—	(LCV) In engine compartment, right front of engine, approximately 2.5 cm (0.98 in) from ignition coil 1 breakout towards ignition coil 2 breakout	• *Engine Harness Routing - Front (LGZ)* • *Engine Harness Routing - Right Front Top (LCV)*	—
J114	Engine Harness	—	(LCV) In engine compartment, right front of engine, approximately 2.5 cm (0.98 in) from ignition coil 1 breakout towards camshaft position actuator solenoid valve - intake breakout	• *Engine Harness Routing - Front (LGZ)* • *Engine Harness Routing - Right Front Top (LCV)*	—
J115	Engine Harness	LGZ	In engine compartment, left front of engine, approximately 15.5 cm (6.10 in) from X101 breakout towards right side of engine, near oil fill cap	*Engine Harness Routing - Front (LGZ)*	—
J116	Engine Harness	LGZ	In engine compartment, left front of engine, approximately 2 cm (0.79 in) from ignition coil 2 breakout towards rear of engine	*Engine Harness Routing - Front (LGZ)*	—

Master Electrical Component List (cont'd)

Code	Name	Option	Location	Locator View	Connector End View
J117	Forward Lamp Harness	—	(LCV/LGZ) In engine compartment, approximately 7.8 cm (3.07 in) into underhood fuse block X1 breakout	• *Forward Lamp Harness Routing - Left Engine Compartment* • *Forward Lamp Harness Routing - Left Engine Compartment (LWN)*	—
J118	Forward Lamp Harness	—	(T3U with LCV/LGZ) In engine compartment, approximately 29.6 cm (11.7 in) into underhood fuse block X1 breakout	• *Forward Lamp Harness Routing - Left Engine Compartment* • *Forward Lamp Harness Routing - Left Engine Compartment (LWN)*	—
J119	Forward Lamp Harness	—	(T3U with LCV/LGZ) In engine compartment, approximately 15.6 cm (6.14 in) into underhood fuse block X1 breakout	• *Forward Lamp Harness Routing - Left Engine Compartment* • *Forward Lamp Harness Routing - Left Engine Compartment (LWN)*	—
J120	Forward Lamp Harness	—	In engine compartment, approximately 28.2 cm (11.7 in) from right fog lamp breakout towards cooling fan control module breakout	• *Engine Harness Routing - Left Front (LWN)* • *Forward Lamp Harness Routing - Right Engine Compartment*	—
J121	Left Headlamp Harness	—	Outside of the vehicle, internal to the left headlamp assembly	—	—
J122	Right Headlamp Harness	—	Outside of the vehicle, internal to the right headlamp assembly	—	—
J123	Body Harness	—	(LCV/LGZ) In engine compartment, approximately 29.7 cm (11.7 in) from battery current sensor towards rear of vehicle	• *Body Harness Routing - Left Engine Compartment (LCV/LGZ)* • *Body Harness Routing - Left Engine Compartment (LWN)*	—
J125	Engine Harness	LWN	In engine compartment, left of engine, approximately 14.8 cm (5.83 in) from underhood fuse block X3 breakout towards front of vehicle	*Engine Harness Routing - Left Front (LWN)*	—
J126	Engine Harness	LWN	In engine compartment, left of engine, approximately 12.4 cm (4.88 in) from underhood fuse block X3 breakout towards front of vehicle	*Engine Harness Routing - Left Front (LWN)*	—

Master Electrical Component List (cont'd)

Code	Name	Option	Location	Locator View	Connector End View
J127	Engine Harness	LWN	In engine compartment, left of engine, approximately 6 cm (2.36 in) from underhood fuse block X3 breakout towards front of vehicle	*Engine Harness Routing - Left Front (LWN)*	—
J128	Engine Harness	—	(LCV) In engine compartment, left rear of engine, approximately 12 cm (4.72 in) from G108	• *Engine Harness Routing - Rear (LGZ)* • *Engine Harness Routing - Right Rear (LCV)*	—
J129	Engine Harness	—	(LCV) In engine compartment, right front of engine, approximately 4.1 cm (1.61 in) from the engine oil level switch breakout towards the rear of vehicle	• *Engine Harness Routing - Rear (LGZ)* • *Engine Harness Routing - Right Rear (LCV)*	—
J130	Engine Harness	LWN	In engine compartment, left of engine, approximately 5 cm (1.97 in) from underhood fuse block X3 breakout towards X109 breakout	—	—
J131	Engine Harness	LWN	In engine compartment, left of engine, approximately 20.7 cm (8.15 in) from crankshaft position sensor breakout towards harness main bundle	*Engine Harness Routing - Right Rear (LWN)*	—
J132	Engine Harness	LWN	In engine compartment, right of engine, approximately 5.7 cm (2.24 in) from engine oil pressure sensor breakout towards exhaust gas recirculation temperature sensor 2 breakout	*Engine Harness Routing - Left Front (LWN)*	—
J133	Engine Harness	LWN	In engine compartment, right of engine, approximately 6.0 cm (2.36 in) from engine oil pressure sensor breakout towards X107 breakout	*Engine Harness Routing - Left Front (LWN)*	—
J134	Engine Harness	LGZ	In engine compartment, left of engine, approximately 4 cm (1.6 in) from T8F ignition coil breakout towards front of the engine	—	—
J135	Engine Harness	LGZ	In engine compartment, front of engine, approximately 15.2 cm (5.98 in) from camshaft position actuator solenoid valve - exhaust breakout towards manifold absolute pressure sensor breakout	—	—
J136	Engine Harness	M5T	In engine compartment, approximately 5 cm (1.9 in) from breakout to X175	—	—
J137	Engine Harness	M5T	In engine compartment, approximately 11 cm (4.33 in) from breakout to X175	—	—

Master Electrical Component List (cont'd)

Code	Name	Option	Location	Locator View	Connector End View
J138	Chassis Harness	UVC	In engine compartment, approximately 6 cm (2.3 in) from X106 breakout towards rear of vehicle	—	—
J175	Transmission Harness (Circuit 6388)	M5T	Under the vehicle, inside the transimssion assembly	—	—
J176	Transmission Harness (Circuit 6387)	M5T	Under the vehicle, inside the transimssion assembly	—	—
J177	Transmission Harness	M5T	Internal to the transmission	—	—
J200	Body Harness	—	In passenger compartment, approximately 12.5 cm (4.92 in) from accelerator pedal position sensor breakout towards brake pedal position sensor breakout	• *Body Harness Routing - Left Front of Passenger Compartment (Crew Cab)* • *Body Harness Routing - Left Front of Passenger Compartment (Extended Cab)*	—
J201	Body Harness	—	In passenger compartment, approximately 15.6 cm (6.14 in) from park brake switch breakout towards main harness	• *Body Harness Routing - Left Front of Passenger Compartment (Crew Cab)* • *Body Harness Routing - Left Front of Passenger Compartment (Extended Cab)*	—
J202	Body Harness	—	In passenger compartment, approximately 8.2 cm (3.23 in) from park brake switch breakout towards main harness	• *Body Harness Routing - Left Front of Passenger Compartment (Crew Cab)* • *Body Harness Routing - Left Front of Passenger Compartment (Extended Cab)*	—
J203	Body Harness	—	In passenger compartment, approximately 4.1 cm (1.61 in) from park brake switch breakout towards body control module breakouts	*Instrument Panel Harness Routing - Rear*	—
J204	Body Harness	—	In passenger compartment, approximately 8.1 cm (3.19 in) from park brake switch breakout towards body control module breakouts	• *Body Harness Routing - Left Front of Passenger Compartment (Crew Cab)* • *Body Harness Routing - Left Front of*	—

Master Electrical Component List (cont'd)

Code	Name	Option	Location	Locator View	Connector End View
				Passenger Compartment (Extended Cab)	
J205	Body Harness	—	In passenger compartment, approximately 11.9 cm (4.69 in) from park brake switch breakout towards main harness	• *Body Harness Routing - Left Front of Passenger Compartment (Crew Cab)* • *Body Harness Routing - Left Front of Passenger Compartment (Extended Cab)*	—
J206	Body Harness	—	In passenger compartment, approximately 4.1 cm (1.61 in) from X500 breakout towards G301 breakout	• *Body Harness Routing - Left Front of Passenger Compartment (Crew Cab)* • *Body Harness Routing - Left Front of Passenger Compartment (Extended Cab)*	—
J207	Body Harness	—	In passenger compartment, approximately 4.6 cm (1.81 in) from X500 breakout towards JX201 breakout	• *Body Harness Routing - Left Front of Passenger Compartment (Crew Cab)* • *Body Harness Routing - Left Front of Passenger Compartment (Extended Cab)*	—
J208	Body Harness	—	In passenger compartment, approximately 9.6 cm (3.78 in) from X500 breakout towards JX201 breakout	• *Body Harness Routing - Left Front of Passenger Compartment (Crew Cab)* • *Body Harness Routing - Left Front of Passenger Compartment (Extended Cab)*	—
J209	Body Harness	—	(Crew Cab) In passenger compartment, approximately 5.0 cm (1.97 in) from G301 breakout towards front of vehicle	• *Body Harness Routing - Left Front of Passenger Compartment (Crew Cab)* • *Body Harness Routing - Left Front of Passenger Compartment (Extended Cab)*	—

Master Electrical Component List (cont'd)

Code	Name	Option	Location	Locator View	Connector End View
J210	Body Harness	Crew Cab	In passenger compartment, approximately 1.23 cm (4.84 in) from G301 breakout towards front of vehicle	*Body Harness Routing - Left Front of Passenger Compartment (Crew Cab)*	—
J211	Body Harness	Crew Cab	In passenger compartment, approximately 22 cm (8.66 in) from G301 breakout towards front of vehicle	*Body Harness Routing - Left Front of Passenger Compartment (Crew Cab)*	—
J212	Body Harness	Crew Cab	In passenger compartment, approximately 30.2 cm (11.9 in) from G301 breakout towards front of vehicle	*Body Harness Routing - Left Front of Passenger Compartment (Crew Cab)*	—
J213	Body Harness	Crew Cab	In passenger compartment, under passenger door trim plate, approximately 12 cm (4.72 in) from antenna coaxial cable inline connector breakout towards rear of vehicle	*Body Harness Routing - Right Front of Passenger Compartment (Crew Cab)*	—
J214	Instrument Panel Harness	—	In passenger compartment, behind left side of instrument panel, approximately 8.8 cm (3.46 in) from data link connector breakout towards steering column	—	—
J217	Instrument Panel Harness	KA1	In passenger compartment, behind left side of instrument panel, near body control module, approximately 5.3 cm (2.09 in) into main harness bundle leading toward body control module X1 breakout	*Instrument Panel Harness Routing - Rear*	—
J218	Instrument Panel Harness	UQ3	In passenger compartment, behind left side of instrument panel, approximately 6.6 cm (2.60 in) from left front speaker breakout towards steering column	*Instrument Panel Harness Routing - Rear*	—
J219	Instrument Panel Harness	UQ3	In passenger compartment, behind left side of instrument panel, approximately 10 cm (3.94 in) from left front speaker breakout towards steering column	*Instrument Panel Harness Routing - Rear*	—
J220	Instrument Panel Harness	—	In passenger compartment, behind left side of instrument panel, approximately 3.2 cm (1.26 in) from left front speaker breakout towards steering column	*Instrument Panel Harness Routing - Rear*	—
J221	Instrument Panel Harness	—	In passenger compartment, behind left side of instrument panel, approximately 15.9 cm (6.26 in) into secondary bundle leading toward steering wheel air bag coil breakout	*Instrument Panel Harness Routing - Rear*	—

Master Electrical Component List (cont'd)

Code	Name	Option	Location	Locator View	Connector End View
J222	Instrument Panel Harness	IO5/IO6	In passenger compartment, behind center of instrument panel, approximately 13 cm (5.12 in) from X305 breakout towards center console accessory power receptacle breakout	*Instrument Panel Harness Routing - Rear*	—
J223	Instrument Panel Harness	—	In passenger compartment, behind center of instrument panel, approximately 3.3 cm (1.30 in) from center console accessory power receptacle breakout towards X305 breakout	*Instrument Panel Harness Routing - Rear*	—
J224	Instrument Panel Harness	—	In passenger compartment, behind center of instrument panel, approximately 5.2 cm (2.05 in) from center console accessory power receptacle breakout towards G305 breakout under center floor console	*Instrument Panel Harness Routing - Rear*	—
J225	Instrument Panel Harness	—	In passenger compartment, behind center of instrument panel, approximately 29.6 cm (11.7 in) from center console accessory power receptacle breakout towards G305 breakout under center floor console	*Instrument Panel Harness Routing - Rear*	—
J226	Instrument Panel harness	IO5/IO6	In passenger compartment, behind center of instrument panel, approximately 14.7? cm (5.79?in) from center console accessory power receptacle breakout towards G305 breakout under center floor console	*Instrument Panel Harness Routing - Rear*	—
J227	Instrument Panel Harness	—	In passenger compartment, behind center of instrument panel, approximately 24.4 cm (9.61 in) from center console accessory power receptacle breakout towards G305 breakout under center floor console	*Instrument Panel Harness Routing - Rear*	—
J228	Instrument Panel Harness	—	In passenger compartment, behind center of instrument panel, approximately 35.3 cm (13.9 in) from center console accessory power receptacle breakout towards G305 breakout under center floor console	*Instrument Panel Harness Routing - Rear*	—
J229	Instrument Panel Harness	UQ3	In passenger compartment, behind right side of instrument panel, approximately 4.5 cm (1.77 in) from passenger instrument panel air bag breakout towards radio X4 breakout	*Instrument Panel Harness Routing - Rear*	—

Master Electrical Component List (cont'd)

Code	Name	Option	Location	Locator View	Connector End View
J230	Instrument Panel Harness	UQ3	In passenger compartment, behind right side of instrument panel, approximately 9 cm (3.54 in) from passenger instrument panel air bag breakout towards radio X4 breakout	*Instrument Panel Harness Routing - Rear*	—
J232	Steering Wheel Harness	—	In passenger compartment, in the steering wheel harness	—	—
J233	Steering Wheel Harness	—	In passenger compartment, in the steering wheel harness	—	—
J234	Steering Wheel Harness	—	In passenger compartment, in the steering wheel harness	—	—
J235	Body Harness	—	In passenger compartment, approximately 5 cm (1.97 in) from brake pedal position sensor breakout towards accelerator pedal position sensor breakout	• *Body Harness Routing - Left Front of Passenger Compartment (Crew Cab)* • *Body Harness Routing - Left Front of Passenger Compartment (Extended Cab)*	—
J239	Instrument Panel Harness	—	In passenger compartment, behind left side of instrument panel, approximately 5 cm (1.97 in) from splice pack JX200 breakout towards floor	*Instrument Panel Harness Routing - Rear*	—
J240	Body Harness	KU1/KU3	In the passenger compartment, under the driver seat approximately 13.7 cm (5.3 in) from G303.	*Body Harness Routing - Left Front of Passenger Compartment (Extended Cab)*	—
J241	Instrument Panel Harness	—	In passenger compartment, behind left side of instrument panel, approximately 16 cm (6.3 in) from left front speaker breakout towards left front kick panel.	*Instrument Panel Harness Routing - Rear*	—
J242	Instrument Panel Harness	—	In the passenger compartment, under the instrument panel, behind the emergency brake assembly at carpet	*Body Harness Routing - Left Front of Passenger Compartment (Crew Cab)*	—
J250	Steering Wheel Harness	—	In passenger compartment, in the steering wheel harness	—	—
J251	HVAC Harness	—	In passenger compartment, HVAC assembly harness	—	—
J252	HVAC Harness	—	In passenger compartment, HVAC assembly harness	—	—
J253	Instrument Panel Harness	LWN	In passenger compartment, behind center of instrument panel, approximately 35.3 cm (13.9 in) from	*Instrument Panel Harness Routing - Rear*	—

Master Electrical Component List (cont'd)

Code	Name	Option	Location	Locator View	Connector End View
J254	Instrument Panel Harness	—	In the passenger compartment, under the instrument panel, left of the steering column and the body control module	• *Body Harness Routing - Left Front of Passenger Compartment (Extended Cab)* • *Instrument Panel Harness Routing - Rear*	—
J300	Body Harness	Crew Cab	In passenger compartment, under passenger door trim plate, approximately 22 cm (8.66 in) from G304 breakout towards front of vehicle	*Body Harness Routing - Right Front of Passenger Compartment (Crew Cab)*	—
J301	Body Harness	—	In passenger compartment, under passenger seat, approximately 4.0 cm (1.57 in) from X320 breakout towards floor console	• *Body Harness Routing - Left Rear of Passenger Compartment (Extended Cab)* • *Body Harness Routing - Right Front of Passenger Compartment (Crew Cab)*	—
J302	Body Harness	Extended Cab	In passenger compartment, under driver door trim plate, approximately 5 cm (1.97 in) from G303 breakout towards rear of vehicle	*Body Harness Routing - Left Front of Passenger Compartment (Extended Cab)*	—
J305	Floor Console Harness	—	In passenger compartment, under center floor console, approximately 11.7 cm (4.61 in) from USB receptacle breakout towards rear of vehicle	*Center Console Harness Routing*	—
J306	Headliner Harness	—	In passenger compartment, above the headliner, approximately 20.3 cm (4.72 in) from the left sunshade mirror lamp breakout towards rear of vehicle	• *Headliner Harness Routing (Crew Cab)* • *Headliner Harness Routing (Extended Cab)*	—
J307	Headliner Harness	—	In passenger compartment, above the headliner, approximately 11.7 cm (4.61 in) from the left sunshade mirror lamp breakout towards rear of vehicle	• *Headliner Harness Routing (Crew Cab)* • *Headliner Harness Routing (Extended Cab)*	—
J308	Headliner Harness	—	(Crew Cab) In passenger compartment, above the headliner, approximately 35.3 cm (13.9 in) from the left sunshade mirror lamp breakout towards rear of vehicle	• *Headliner Harness Routing (Crew Cab)* • *Headliner Harness Routing (Extended Cab)*	—
J309	Driver Seat Cushion Harness	AL9	In passenger compartment, under driver seat, approximately 11 cm (4.3 in) from X310 towards the seat adjuster switch	*Driver Seat Harness Routing*	—

Master Electrical Component List (cont'd)

Code	Name	Option	Location	Locator View	Connector End View
J310	Passenger Seat Cushion Harness	AT9	In passenger compartment, under passenger seat, approximately 11 cm (4.3 in) from X320 towards the seat adjuster switch	*Passenger Seat Harness Routing*	—
J311	Driver Seat Cushion Harness	AH6/AL9/KA1	In passenger compartment, under driver seat, approximately 21.5 cm (8.5 in) from X310	*Driver Seat Harness Routing*	—
J312	Passenger Seat Cushion Harness	AAQ/AT9/KA1	In passenger compartment, under passenger seat, approximately 17.5 cm (6.9 in) from X320	*Passenger Seat Harness Routing*	—
J313	Passenger Seat Cushion Harness	—	In passenger compartment, under passenger seat, approximately 23.5 cm (9.3 in) from X320	*Passenger Seat Harness Routing*	—
J314	Driver Seat Cushion Harness	—	In passenger compartment, under driver seat	—	—
J315	Driver Seat Cushion Harness	—	In passenger compartment, under driver seat	—	—
J316	Passenger Seat Cushion Harness	AAQ/AT9/KA1	In passenger compartment, under passenger seat	—	—
J317	Driver Seat Cushion Harness	KU1	In passenger compartment, under driver seat	—	—
J318	Driver Seat Cushion Harness	KU1	In passenger compartment, under driver seat	—	—
J319	Passenger Seat Cushion Harness	KU3	In passenger compartment, under passenger seat	—	—
J320	Passenger Seat Cushion Harness	KU3	In passenger compartment, under passenger seat	—	—
J321	Body Harness	—	In passenger compartment, under passenger door trim plate, approximately 27 cm (10.66 in) from G304 breakout towards front of vehicle	—	—
J400	Chassis Harness	—	Underneath the rear of vehicle, approximately 5.3 cm (2.09 in) from G401 breakout towards rear of vehicle	• *Chassis Harness Routing (Crew Cab)* • *Chassis Harness Routing (Extended Cab)* • *Chassis Harness Routing (LWN)*	—
J401	Chassis Harness	LCV/LGZ	Underneath the rear of vehicle, approximately 13.5 cm (5.31 in) from chassis control module (LFX) or fuel pump driver control module (LCV) breakout towards front of vehicle	• *Chassis Harness Routing (Crew Cab)* • *Chassis Harness Routing (Extended Cab)*	—
J402	Chassis Harness	—	(LCV/LGZ) Underneath the rear of vehicle, approximately 6.1 cm (2.40 in) from chassis control module (LFX) or fuel pump driver control module (LCV) breakout towards left frame rail	• *Chassis Harness Routing (Crew Cab)* • *Chassis Harness Routing (Extended Cab)* • *Chassis Harness Routing (LWN)*	—

Master Electrical Component List (cont'd)

Code	Name	Option	Location	Locator View	Connector End View
J404	Chassis Harness	—	Underneath the rear of vehicle, approximately 6.2 cm (2.44 in) into G400 breakout	• *Chassis Harness Routing (Crew Cab)* • *Chassis Harness Routing (Extended Cab)* • *Chassis Harness Routing (LWN)*	—
J405	Chassis Harness	LCV/LGZ	Underneath the rear of vehicle, approximately 20.1 cm (7.91 in) from G400 breakout towards front of vehicle	• *Chassis Harness Routing (Crew Cab)* • *Chassis Harness Routing (Extended Cab)*	—
J406	License Harness	—	At rear of vehicle, approximately 10 cm (3.94 in) from inline connector X400	*Rear License Plate Harness Routing*	—
J407	License Harness	—	At rear of vehicle, approximately 12.5 cm (4.92 in) from inline connector X400	*Rear License Plate Harness Routing*	—
J408	License Harness	—	At rear of vehicle, approximately 14.9 cm (5.87 in) from left license lamp breakout towards rear camera breakout	*Rear License Plate Harness Routing*	—
J409	License Harness	—	At rear of vehicle, approximately 4.8 cm (1.89 in) into rear camera breakout	*Rear License Plate Harness Routing*	—
J410	Chassis Harness	LWN	Underneath the rear of vehicle, approximately 41.2 cm (16.22 in) from the exhaust temperature sensor 2 breakout towards front of vehicle	*Chassis Harness Routing (LWN)*	—
J411	Chassis Harness	—	(8S3 With Z82) Underneath the rear of vehicle, approximately 65.2 cm (25.7 in) from the exhaust temperature sensor 2 breakout towards front of vehicle	*Chassis Harness Routing (LWN)*	—
J412	Chassis Harness	—	(8S3 With Z82) Underneath the rear of vehicle, approximately 55.2 cm (21.7 in) from the trailer connector	*Chassis Harness Routing (LWN)*	—
J413	Chassis Harness	S0Y	At rear of vehicle, in left tail lamp breakout, present with accessory bed lighting kit installed	—	—
J415	Chassis Harness	LWN	At rear of vehicle, approximately 10 cm (3.82 in) from the G401/G404 breakout towards trailer brake power control module	*Chassis Harness Routing (LWN)*	—
J416	Chassis Harness	LWN	At front of vehicle, approximately 3.3 cm (1.30 in) from the right front wheel speed sensor breakout towards nitrogen oxide sensor 1 breakout	*Chassis Harness Routing (LWN)*	—

Master Electrical Component List (cont'd)

Code	Name	Option	Location	Locator View	Connector End View
J417	Chassis Harness	LWN	At middle of vehicle, approximately 26.9 cm (10.59 in) into the nitrogen oxide sensor 2 breakout	*Chassis Harness Routing (LWN)*	—
J418	Chassis Harness	LWN	At middle of vehicle, approximately 14 cm (5.51 in) from exhaust particulate matter sensor breakout towards exhaust temperature sensor 5 breakout	*Chassis Harness Routing (LWN)*	—
J419	Chassis Harness	LWN	At middle of vehicle, approximately 9.1 cm (3.58 in) from exhaust particulate matter sensor breakout towards exhaust temperature sensor 5 breakout	*Chassis Harness Routing (LWN)*	—
J420	Chassis Harness	LWN	Underneath the rear of vehicle, approximately 25.7 cm (10.12 in) from the exhaust temperature sensor 2 breakout towards front of vehicle	*Chassis Harness Routing (LWN)*	—
J421	Chassis Harness	LWN	Underneath the rear of vehicle, approximately 5 cm (1.97 in) from the exhaust temperature sensor 2 breakout towards front of vehicle	*Chassis Harness Routing (LWN)*	—
J422	Chassis Harness	LWN	At middle of vehicle, approximately 31.9 cm (12.56 in) into the nitrogen oxide sensor 2 breakout	*Chassis Harness Routing (LWN)*	—
J423	Chassis Harness	LWN	Underneath the rear of vehicle, approximately 36.2 cm (14.25 in) from the exhaust temperature sensor 2 breakout towards front of vehicle	*Chassis Harness Routing (LWN)*	—
J424	Chassis Harness	LWN	Underneath the rear of vehicle, approximately 16 cm (16.22 in) from the reductant control module connector X1	*Chassis Harness Routing (LWN)*	—
J425	Chassis Harness	—	Underneath the rear of vehicle, approximately 14.5 cm (5.7?in) from G400 breakout	—	—
J426	Chassis Harness	—	Underneath the rear of vehicle, approximately 38.9 cm (15.3?in) from G400 breakout	—	—
J427	Chassis Harness	—	In engine compartment, approximately 47.4?cm (18.6?in) from X103 breakout towards rear of vehicle	—	—
J428	Chassis Harness	—	In engine compartment, approximately 49.4?cm (19.4?in) from X103 breakout towards rear of vehicle	—	—

Master Electrical Component List (cont'd)

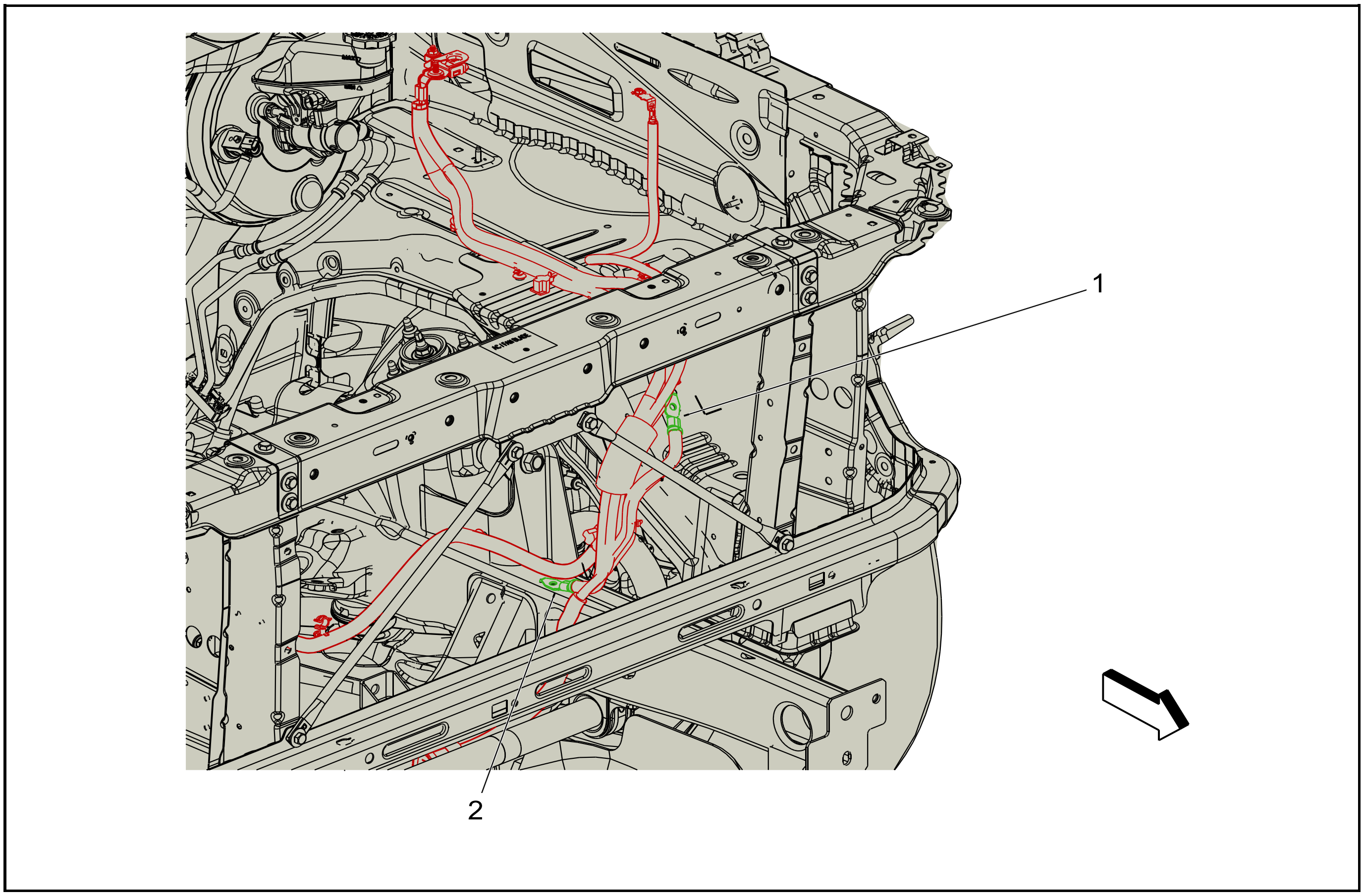
Code	Name	Option	Location	Locator View	Connector End View
J430	Chassis Harness	—	Outside of vehicle, under left rear, approximatley 24 cm (9.4 in) from X400	—	—
J434	Chassis Harness	—	Outside of vehicle, under left rear, approximatley 14 cm (5.5 in) from X400	—	—
J501	Driver Door Harness	—	In the driver door, approximately 7.9 cm (3.11 in) from window motor breakout towards front of vehicle	*Driver Door Harness Routing*	—
J502	Driver Door Harness	—	In the driver door, approximately 3.2 cm (1.26 in) from window motor breakout towards impact sensor breakout	*Driver Door Harness Routing*	—
J503	Driver Door Harness	—	In the driver door, approximately 21.3 cm (8.39 in) from window motor breakout towards front	*Driver Door Harness Routing*	—
J504	Driver Door Harness	—	In the driver door, approximately 15.4 cm (6.06 in) from speaker breakout towards rear of vehicle	*Driver Door Harness Routing*	—
J505	Driver Door Harness	—	In the driver door, approximately 31.5 cm (12.4 in) from speaker breakout towards rear of vehicle	*Driver Door Harness Routing*	—
J600	Passenger Door Harness	—	In the passenger door, approximately 18.2 cm (7.17 in) from window motor breakout towards front of vehicle	*Passenger Door Harness Routing*	—
J700	Left Rear Door Harness	Extended Cab	In the left rear door, near rear, approximately 15.9 cm (6.29 in) from speaker breakout towards rear of vehicle	*Left Rear Door Harness Routing (Exended Cab)*	—
J701	Left Rear Door Harness	—	(Crew Cab) In the left rear door, near front, approximately 6.0 cm (2.36 in) from window switch — left rear breakout towards window motor	• *Left Rear Door Harness Routing (Crew Cab)* • *Left Rear Door Harness Routing (Exended Cab)*	—
J800	Right Rear Door Harness	Extended Cab	In the right rear door, near rear, approximately 16.2 cm (6.38 in) from speaker breakout towards rear of vehicle	*Right Rear Door Harness Routing (Extended Cab)*	—
J801	Right Rear Door Harness	—	(Crew Cab) In the right rear door, near front, approximately 6.0 cm (2.36 in) from window switch — right rear breakout towards window motor	• *Right Rear Door Harness Routing (Crew Cab)* • *Right Rear Door Harness Routing (Extended Cab)*	—

Wiring Systems and Power Management

Component Locator

Ground Views

G100 and G101

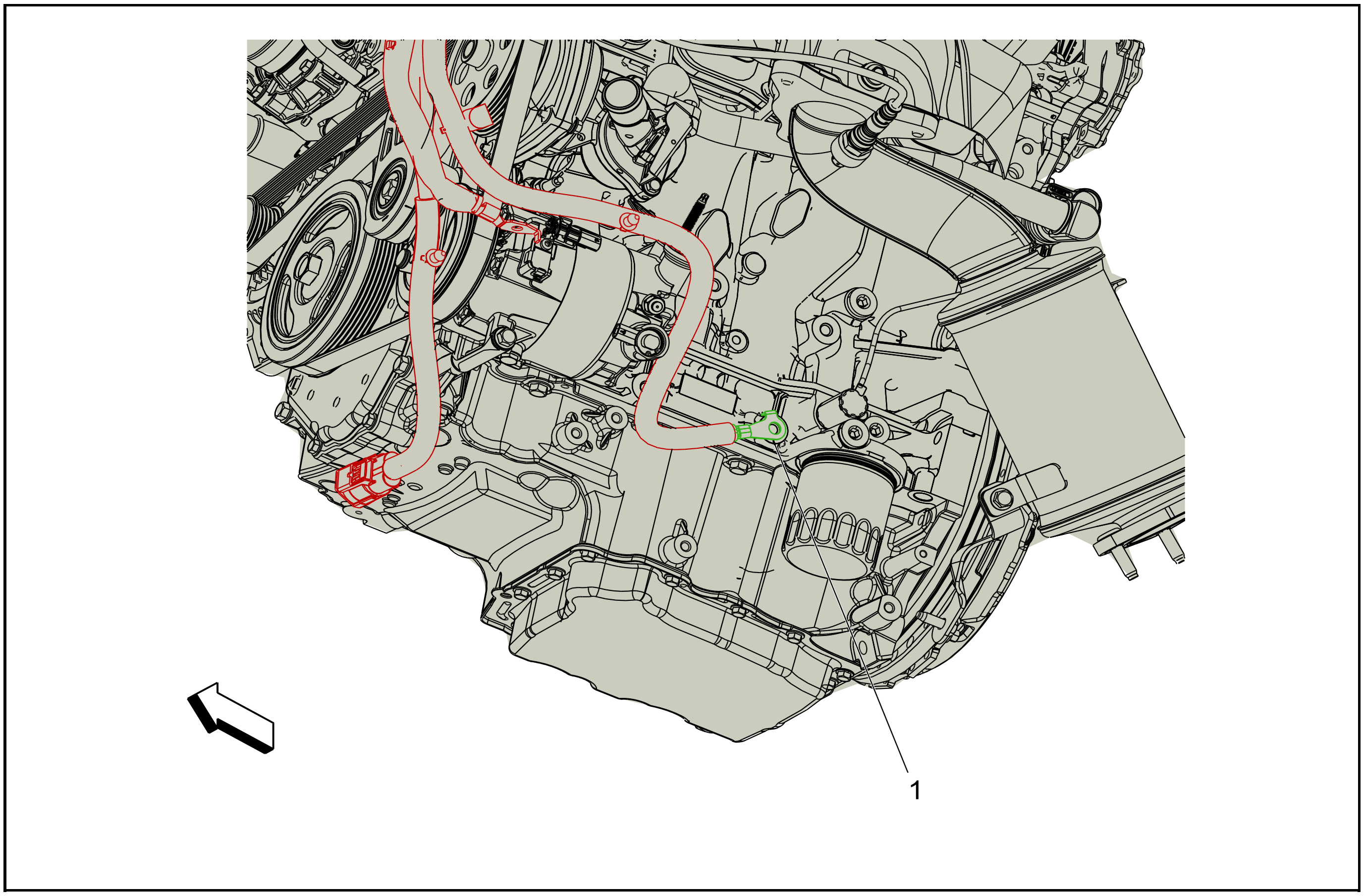


3980481

Items

(1)	G100 Battery Negative Harness
(2)	G101 Battery Negative Harness

G102 (LCV)

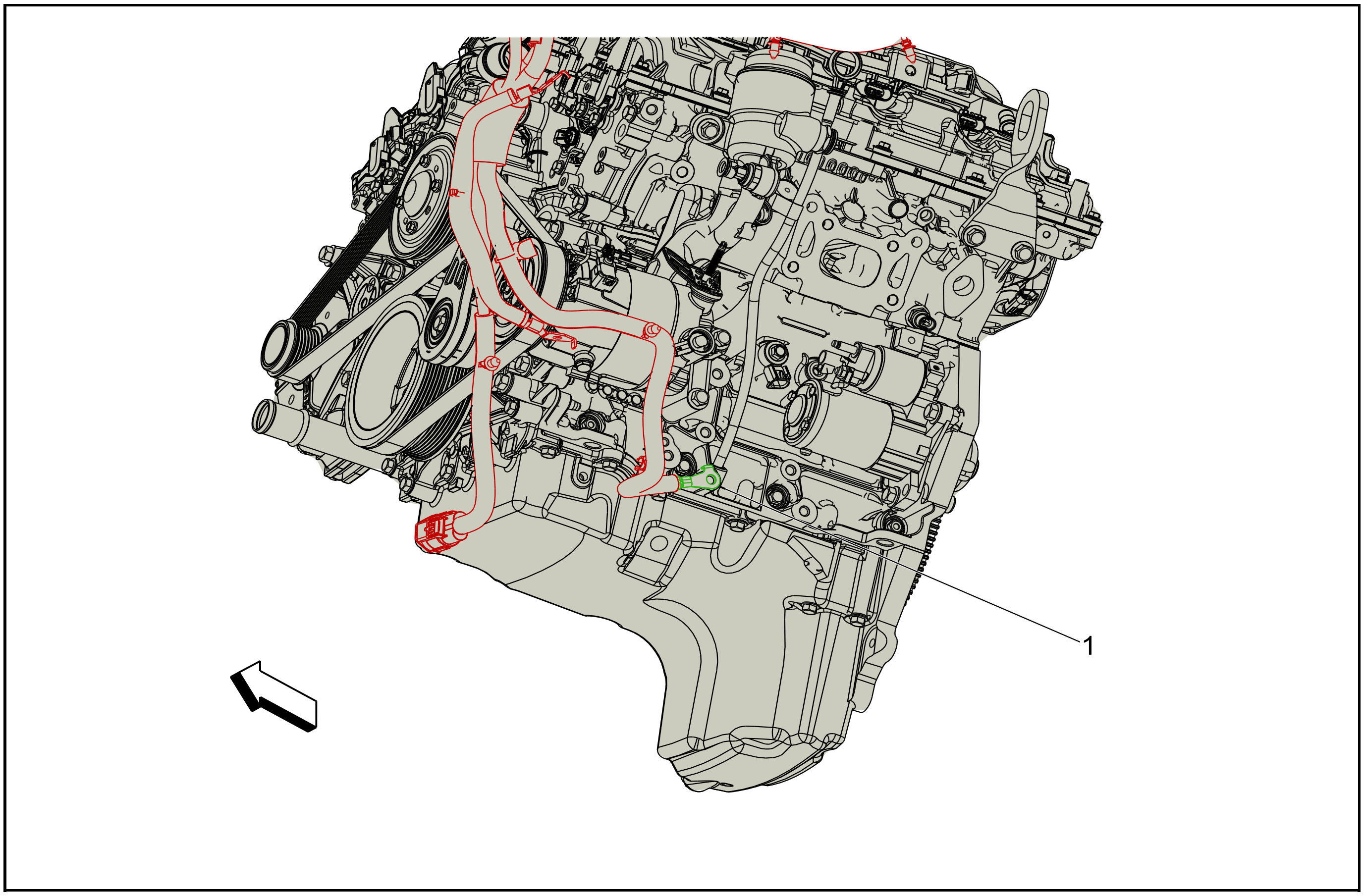


3980485

Items

(1)	G102 Battery Negative Harness

G102 (LGZ)

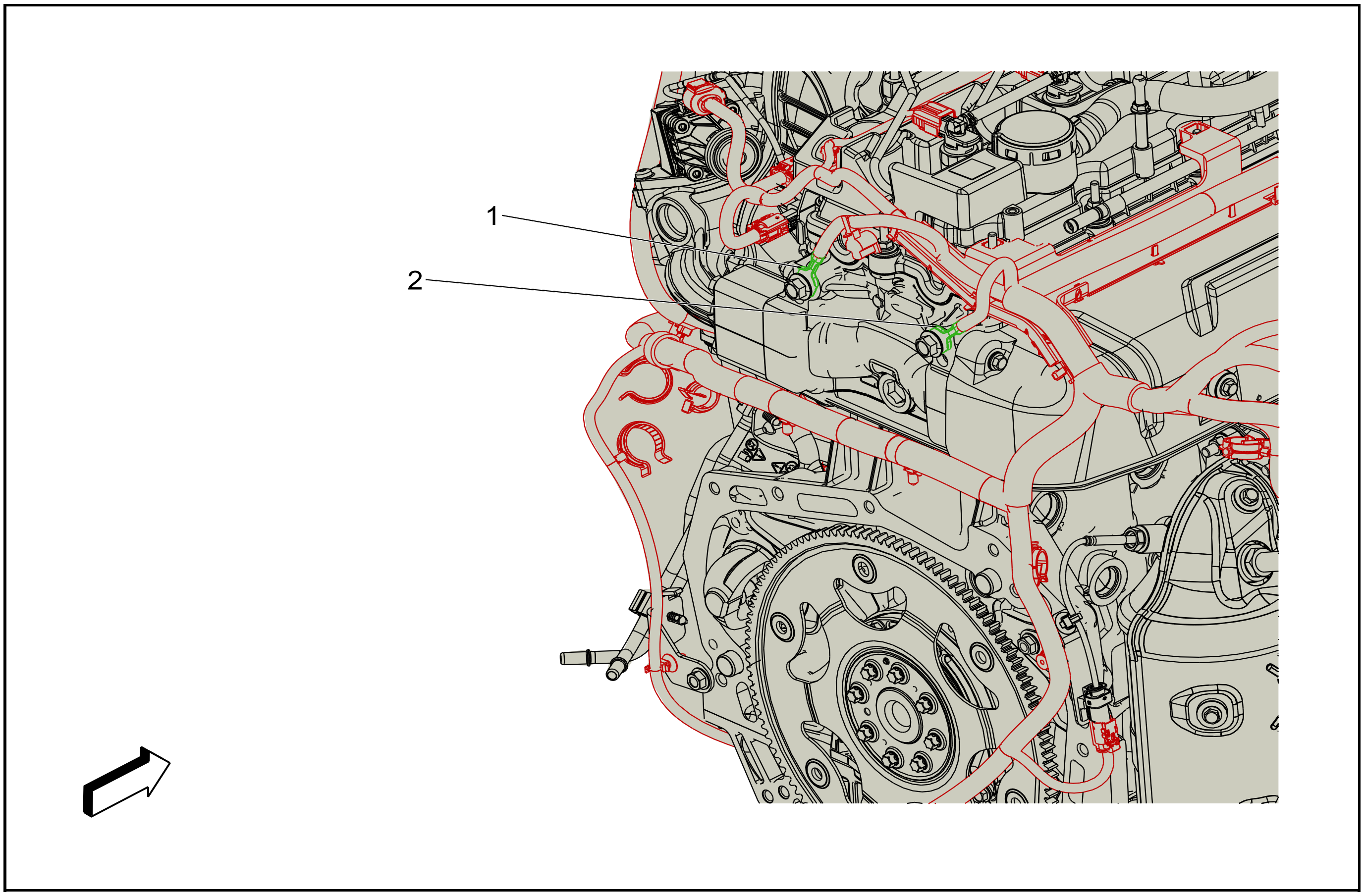


3980488

Items

(1)	G102 Battery Negative Harness

G102 (LWN)

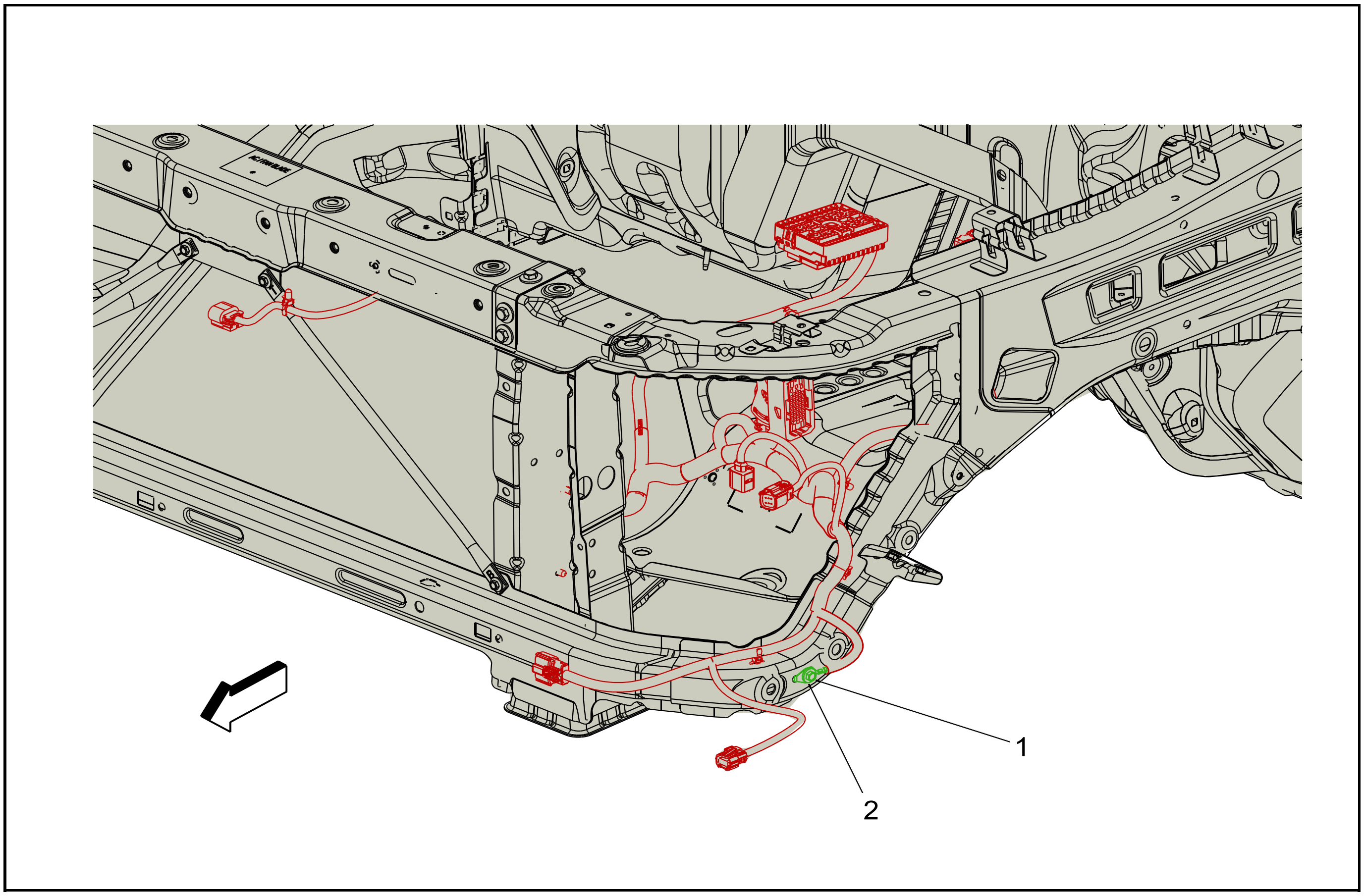


4554096

Items

(1)	G102 Battery Negative Harness
(2)	G107 Engine Harness

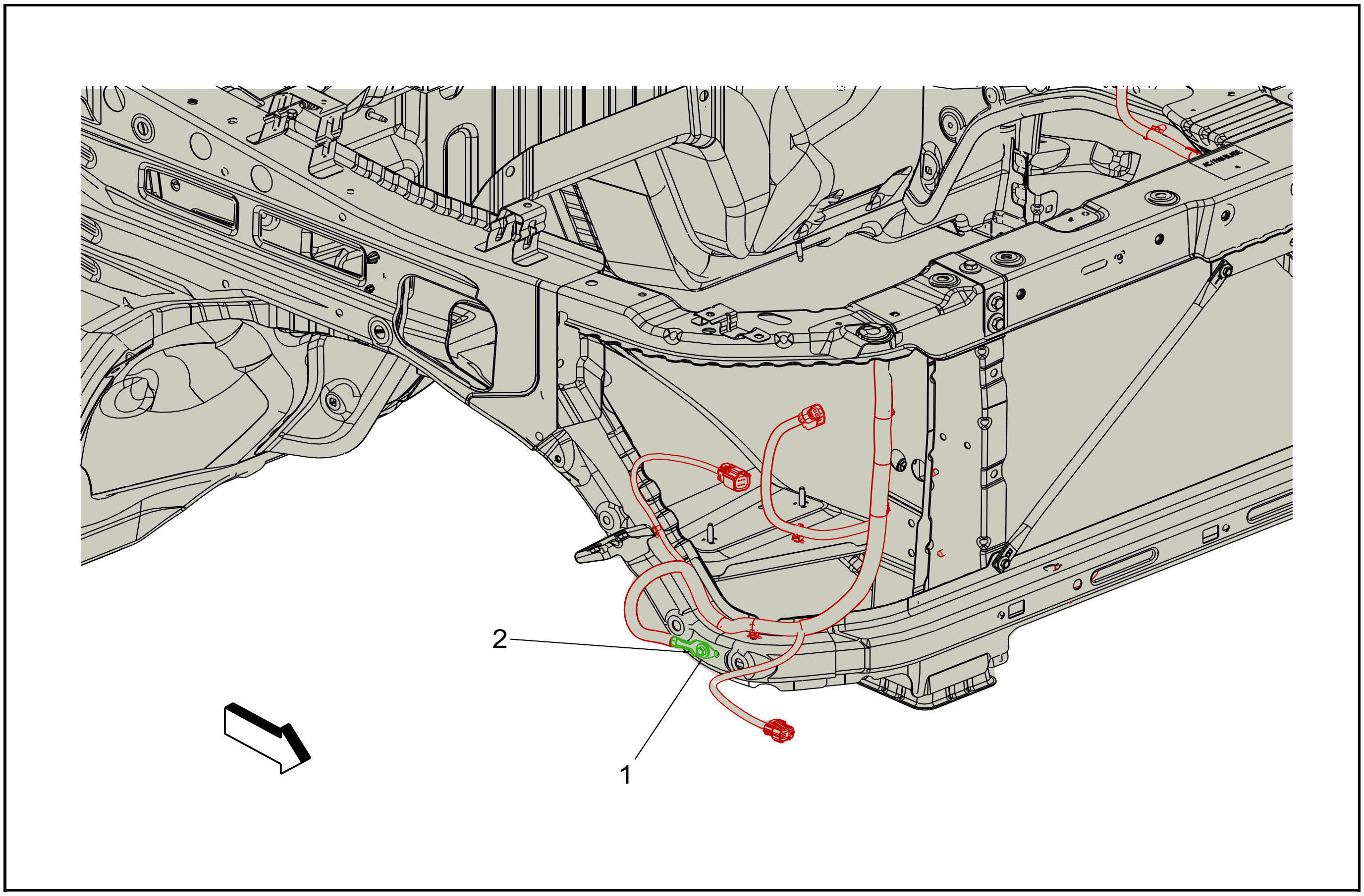
G103 (LCV/LGZ), G105 (LWN)



Items

(1)	G103 Forward Lamp Harness
(2)	G105 Forward Lamp Harness

G103 (LWN), G105 (LCV/LGZ)

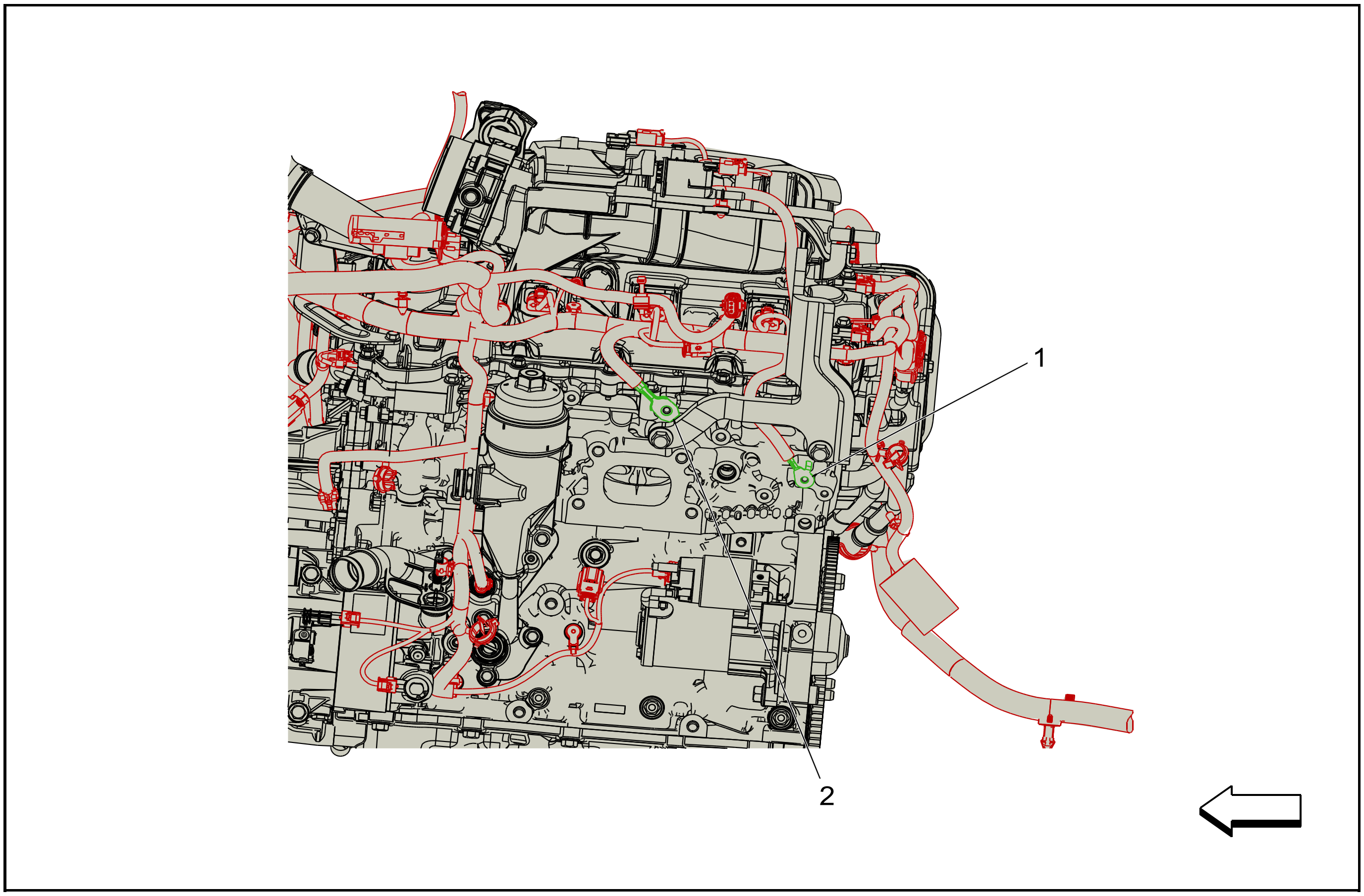


Items

(1) G105 Forward Lamp Harness

(2) G103 Forward Lamp Harness

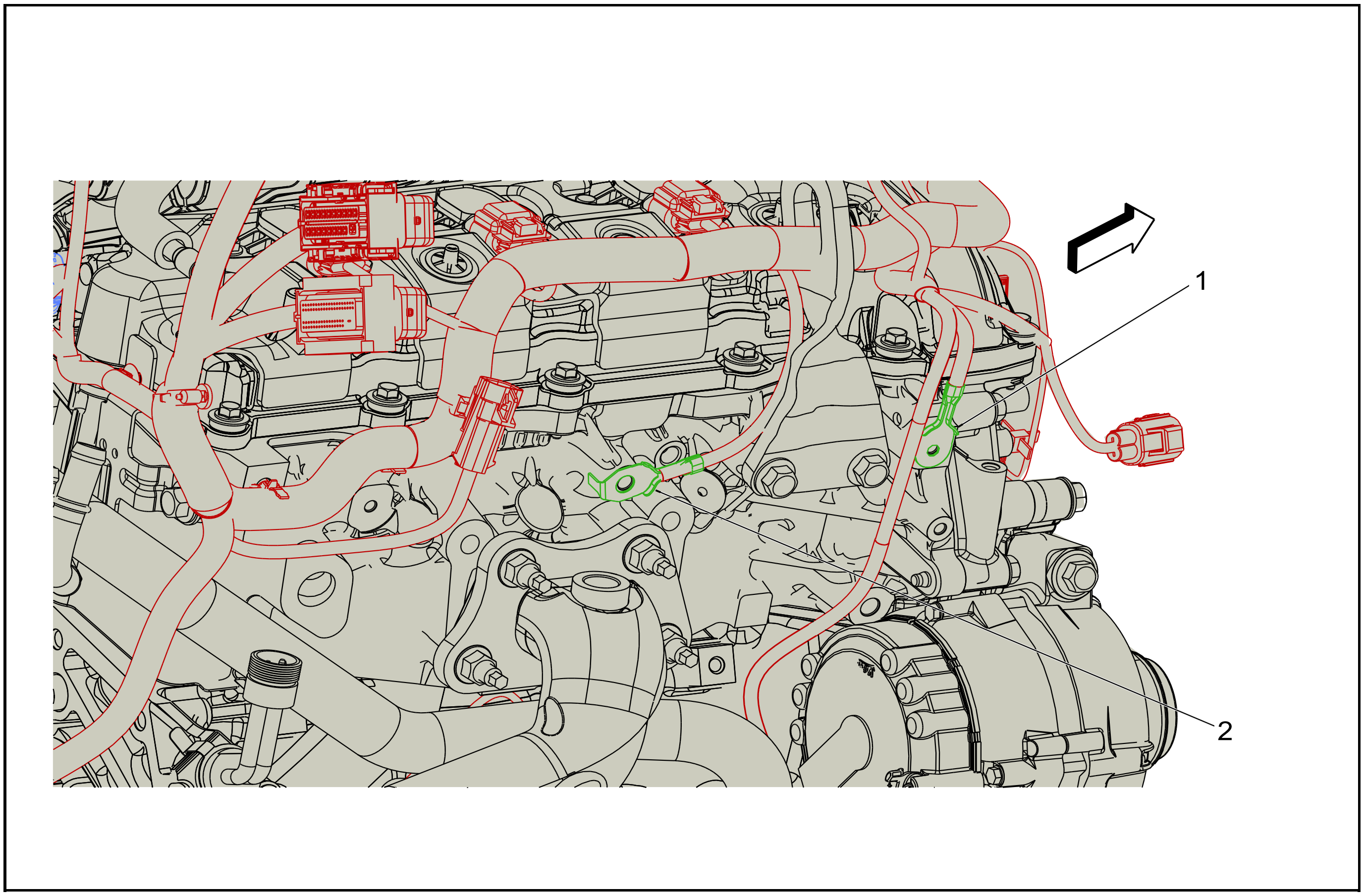
G104 and G109 (LGZ)



4649221

Items	
(1)	G109 Engine Harness (LGZ)
(2)	G104 Engine Harness (LGZ)

G107 and G108 (LGZ)

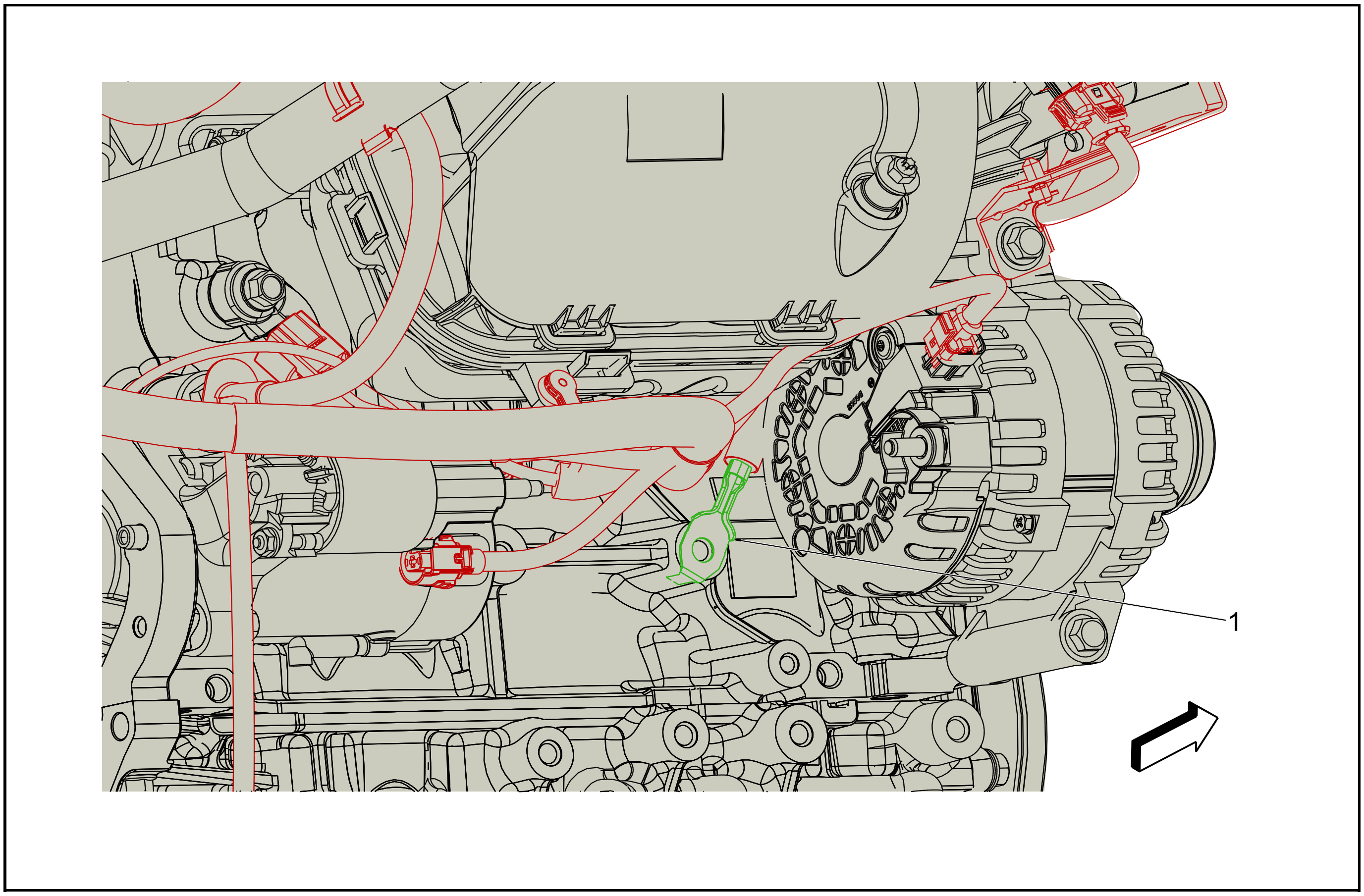


5023507

Items

(1)	G108 Engine Harness
(2)	G107 Engine Harness

G107 (LCV)

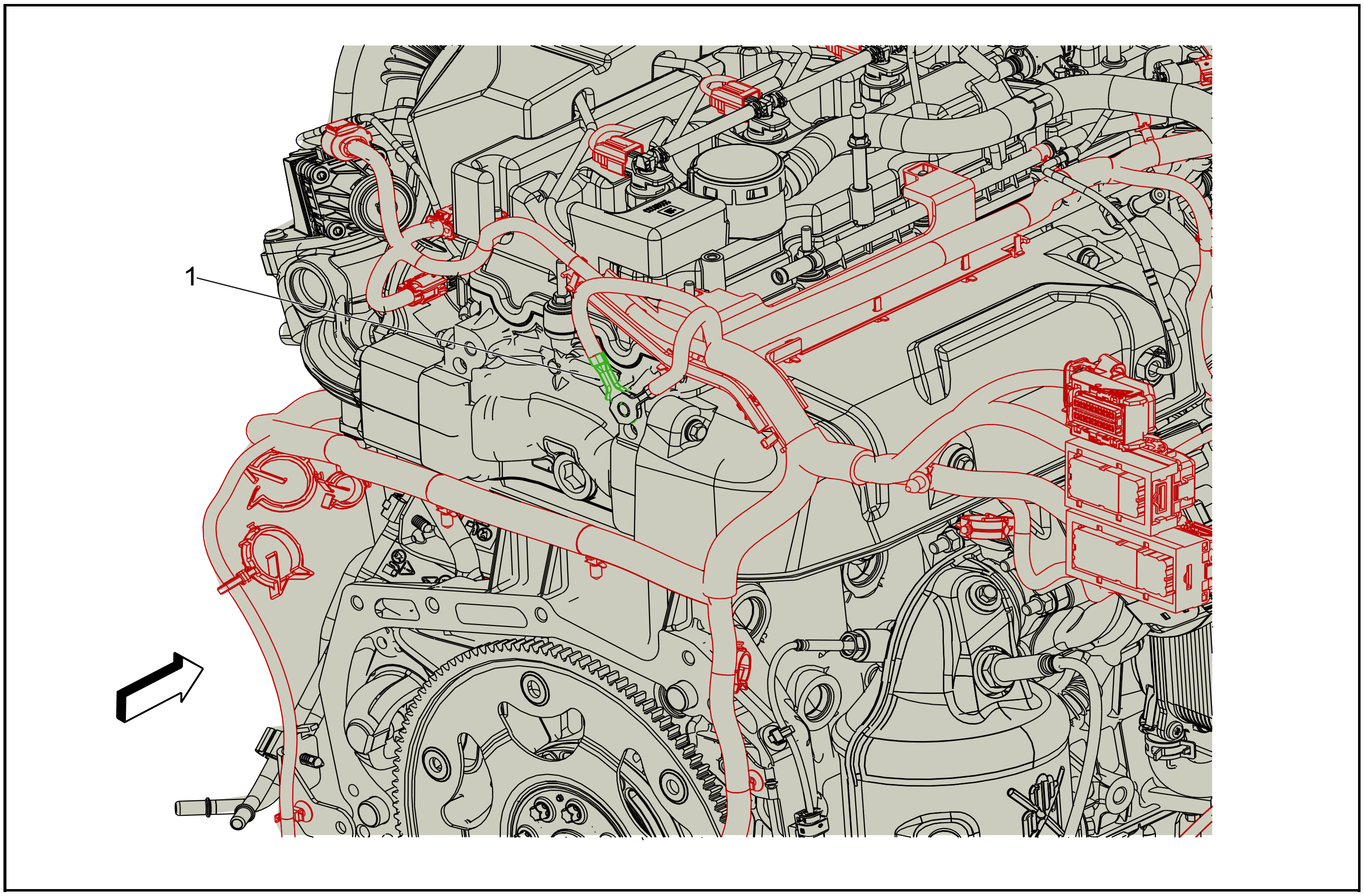


3932216

Items

(1)	G107 Engine Harness

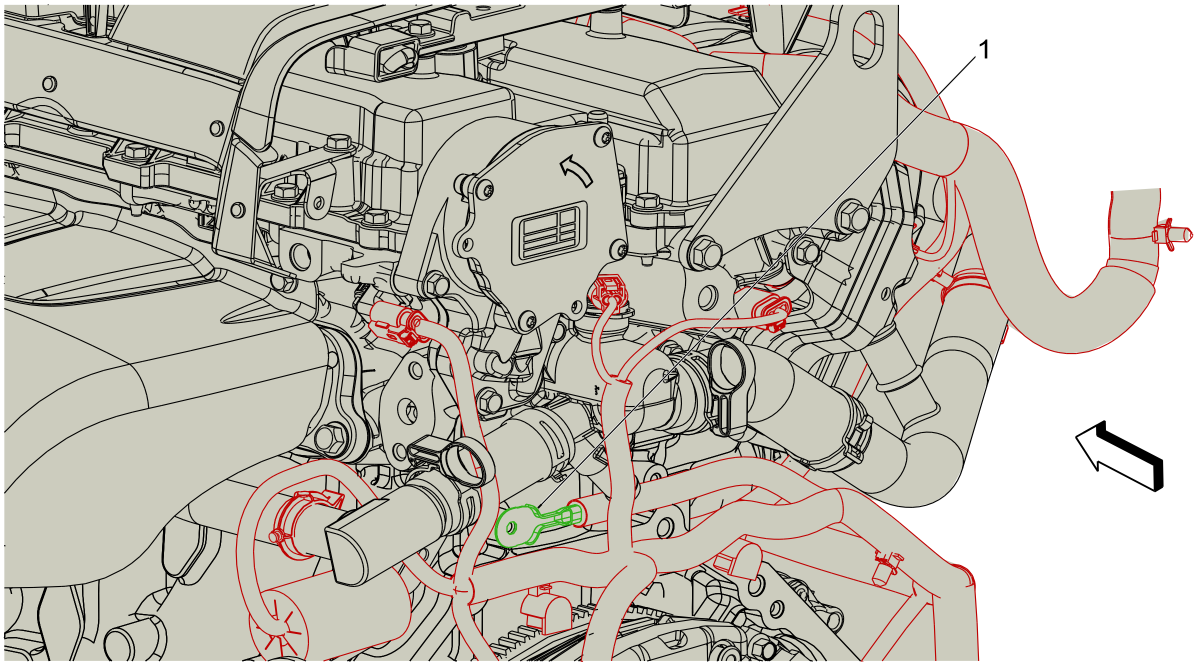
G107 (LWN)



Items

(1)	G107 Engine Harness

G108 (LCV)

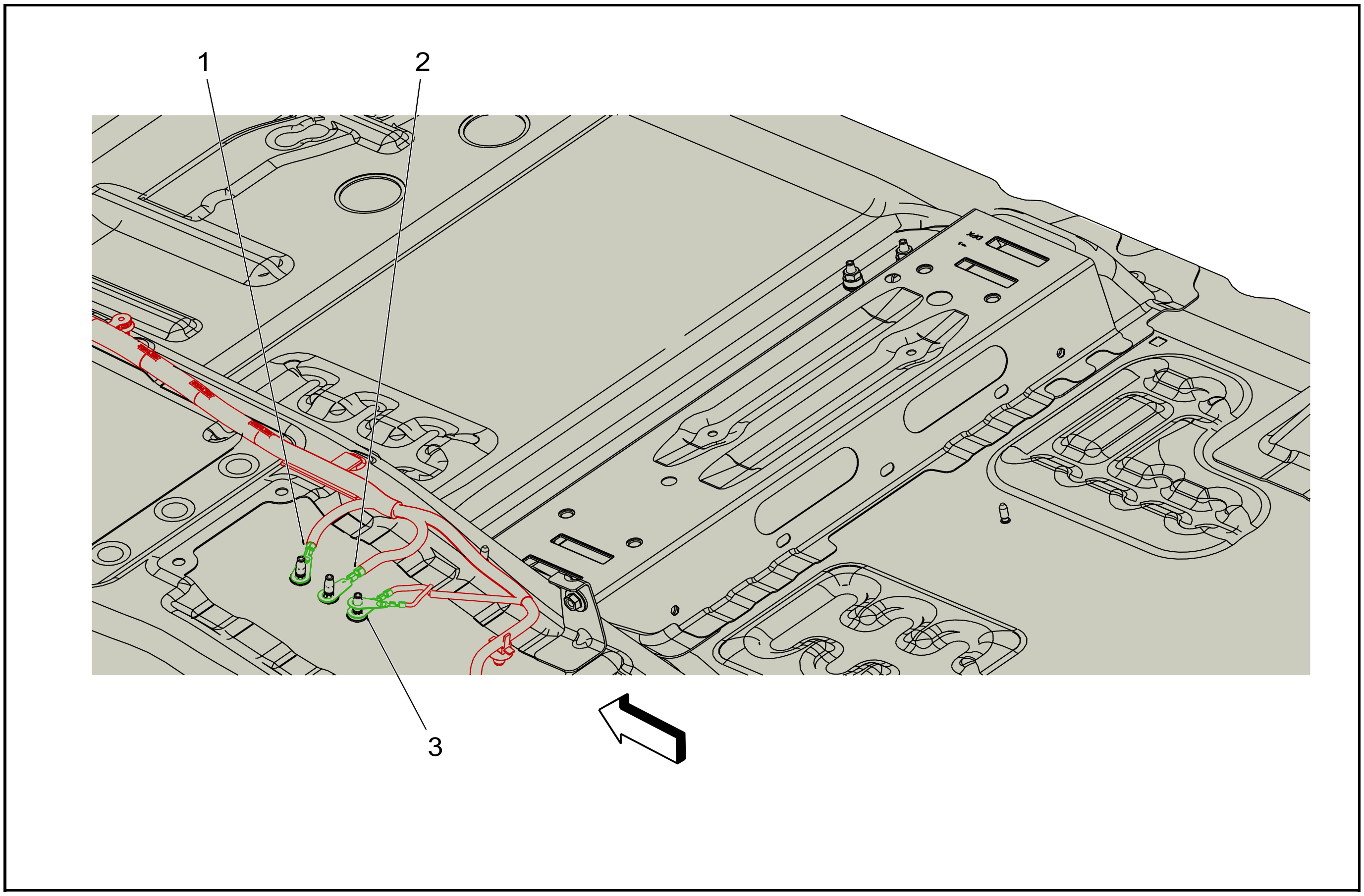


3932221

Items

(1) G108 Engine Harness

G300, G305, and G307

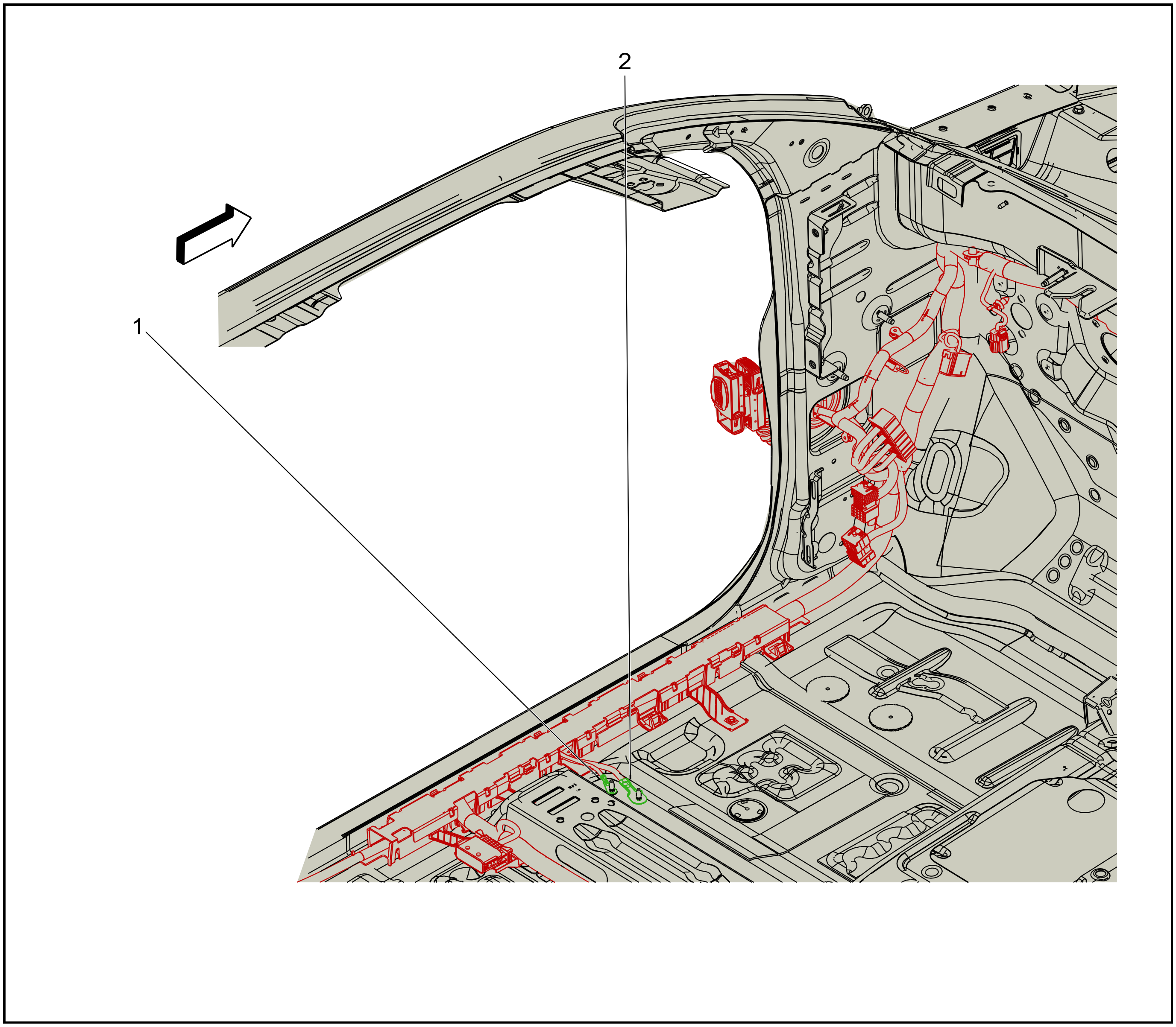


3932348

Items

(1)	G300 Instrument Panel Harness
(2)	G305 Instrument Panel Harness
(3)	G307 Instrument Panel Harness

G301 and G303

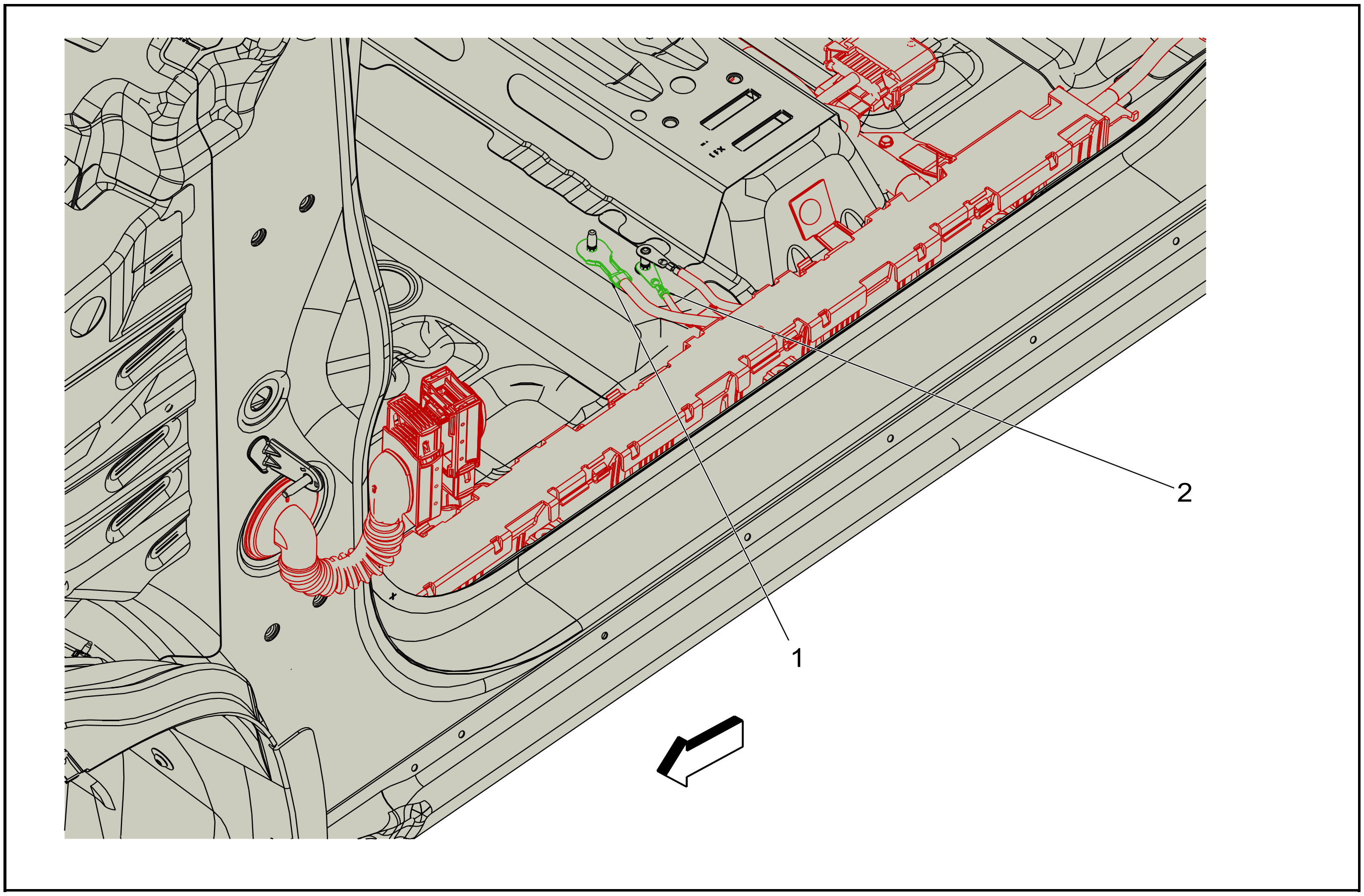


3932359

Items

(1)	G303 Body Harness
(2)	G301 Body harness

G301 and G303 (LWN)

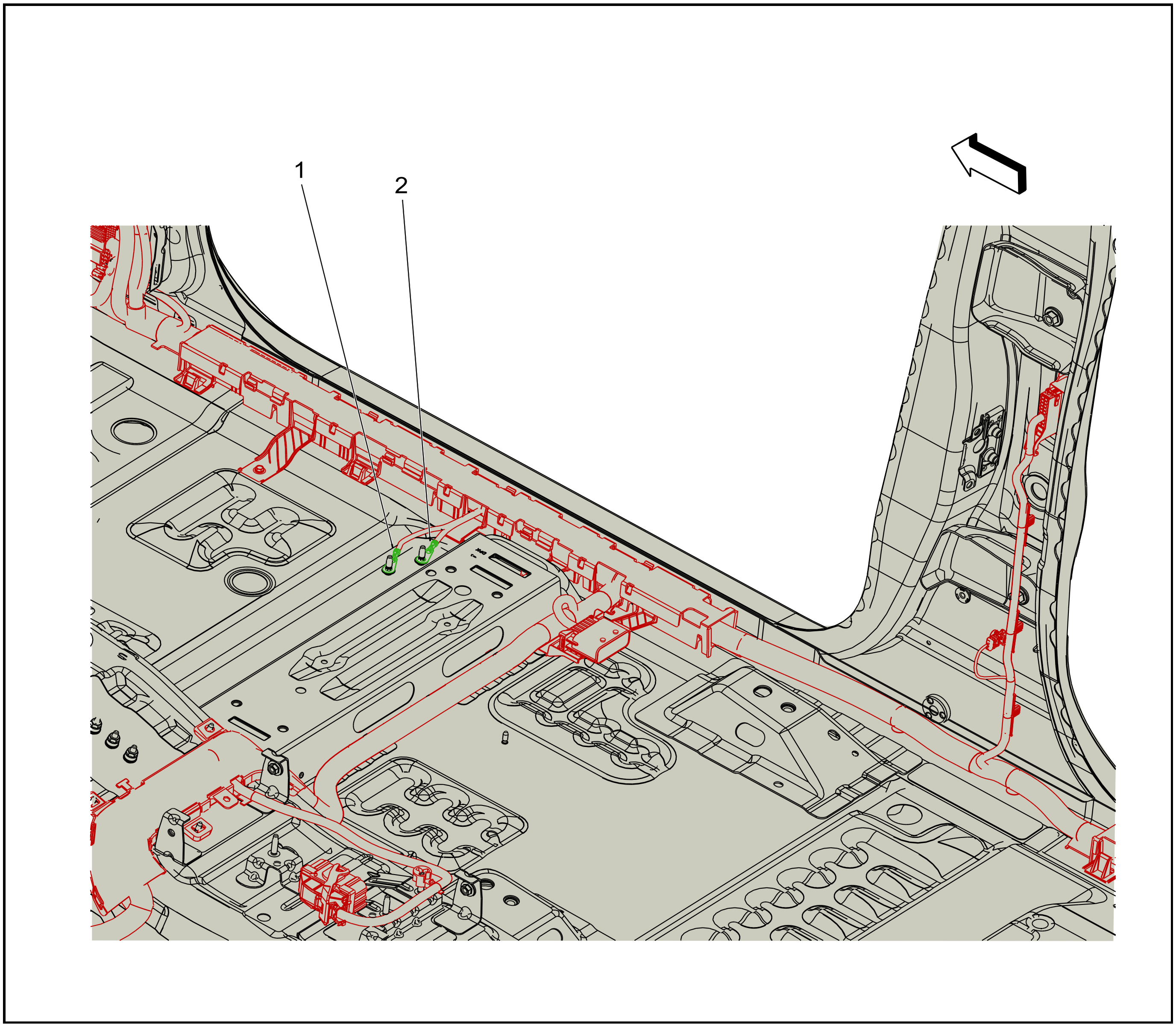


4122362

Items

(1)	G301 Body harness
(2)	G303 Body Harness

G302 and G304 (Crew Cab)

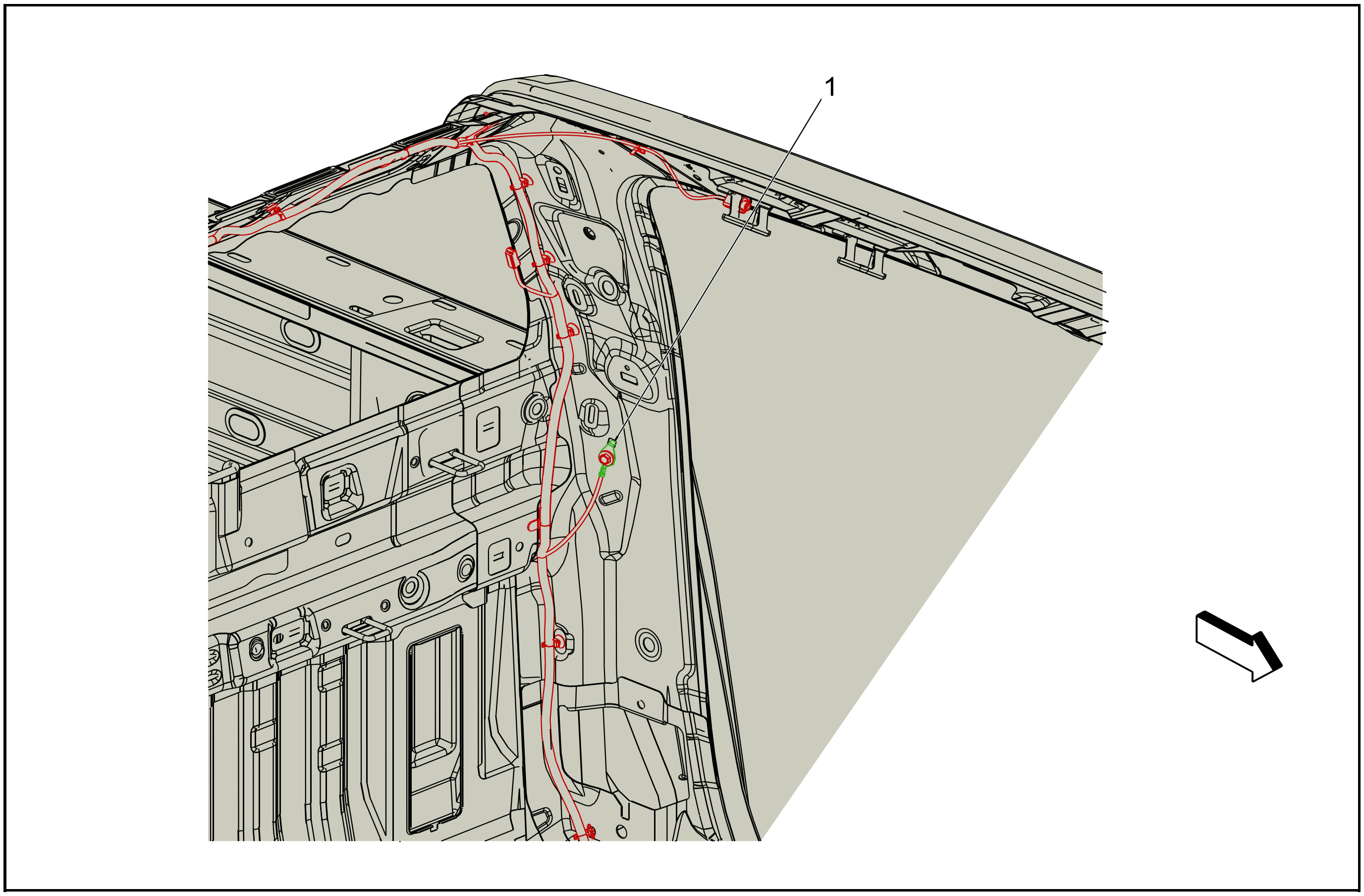


3932378

Items

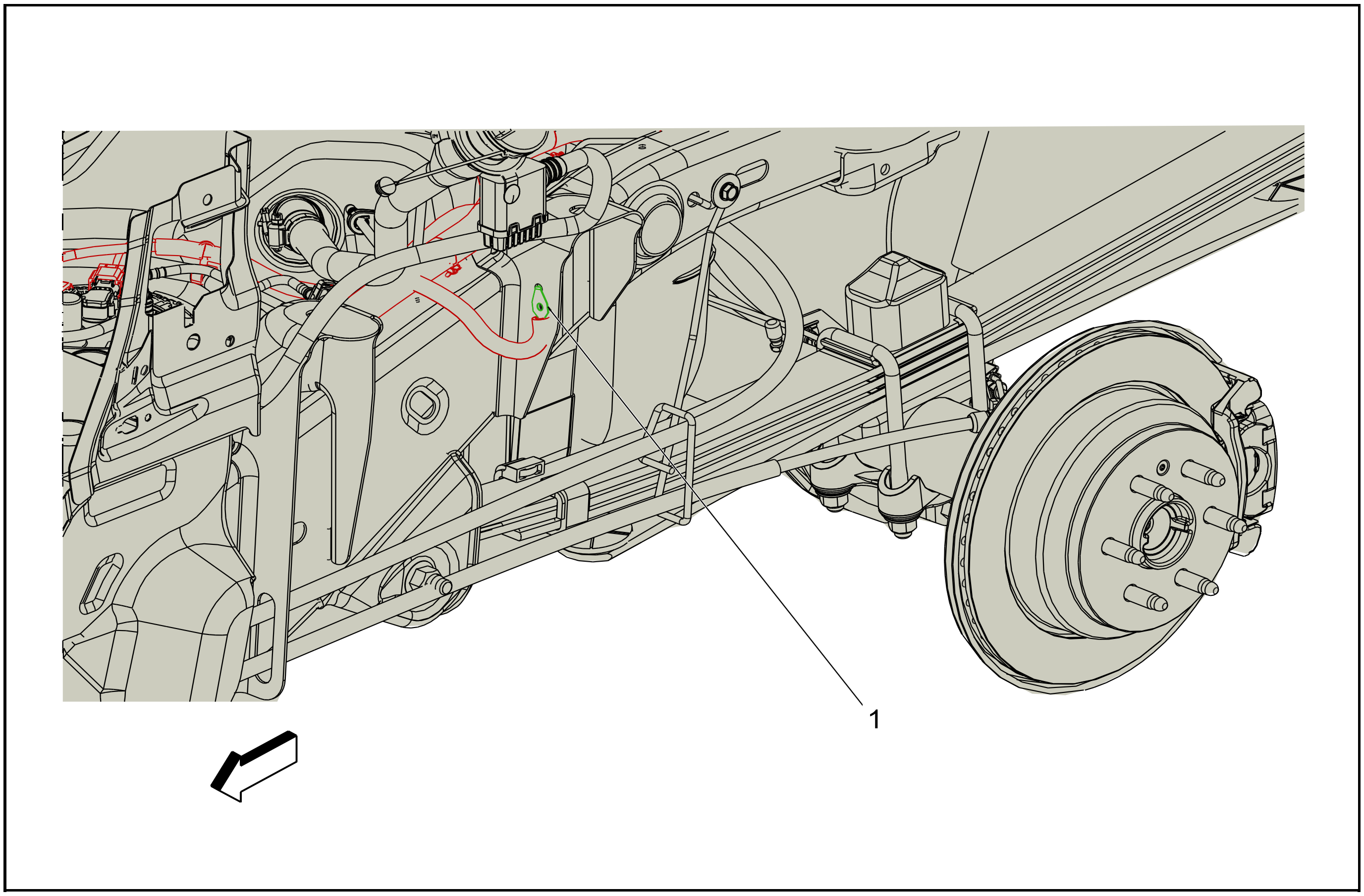
(1)	G302 Body Harness
(2)	G304 Body Harness

G306 (C49)



	Items
(1)	G306 Body Harness (C49)

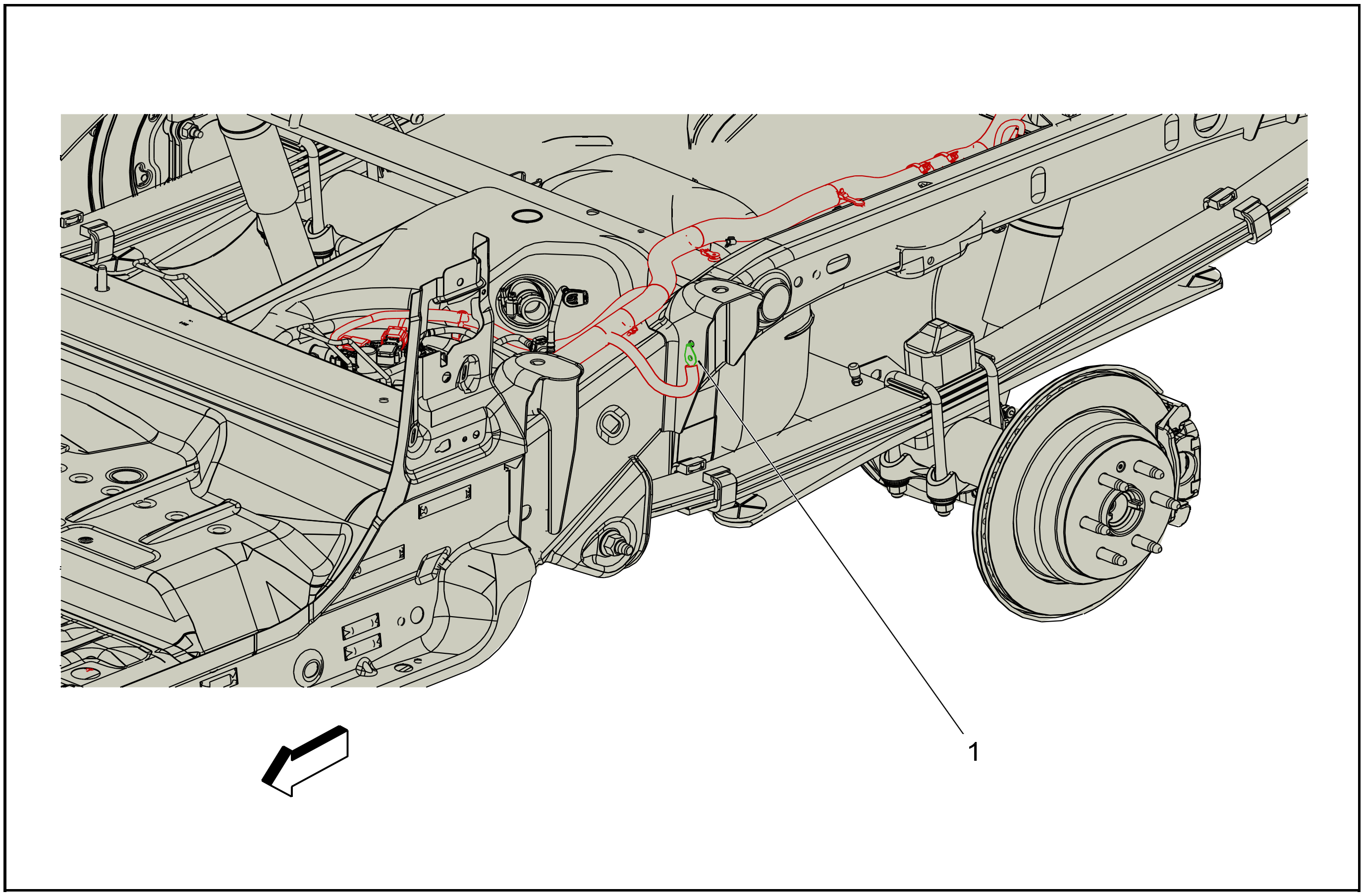
G400 (Crew Cab)



Items

(1)	G400 Chassis Harness

G400 (Extended Cab)

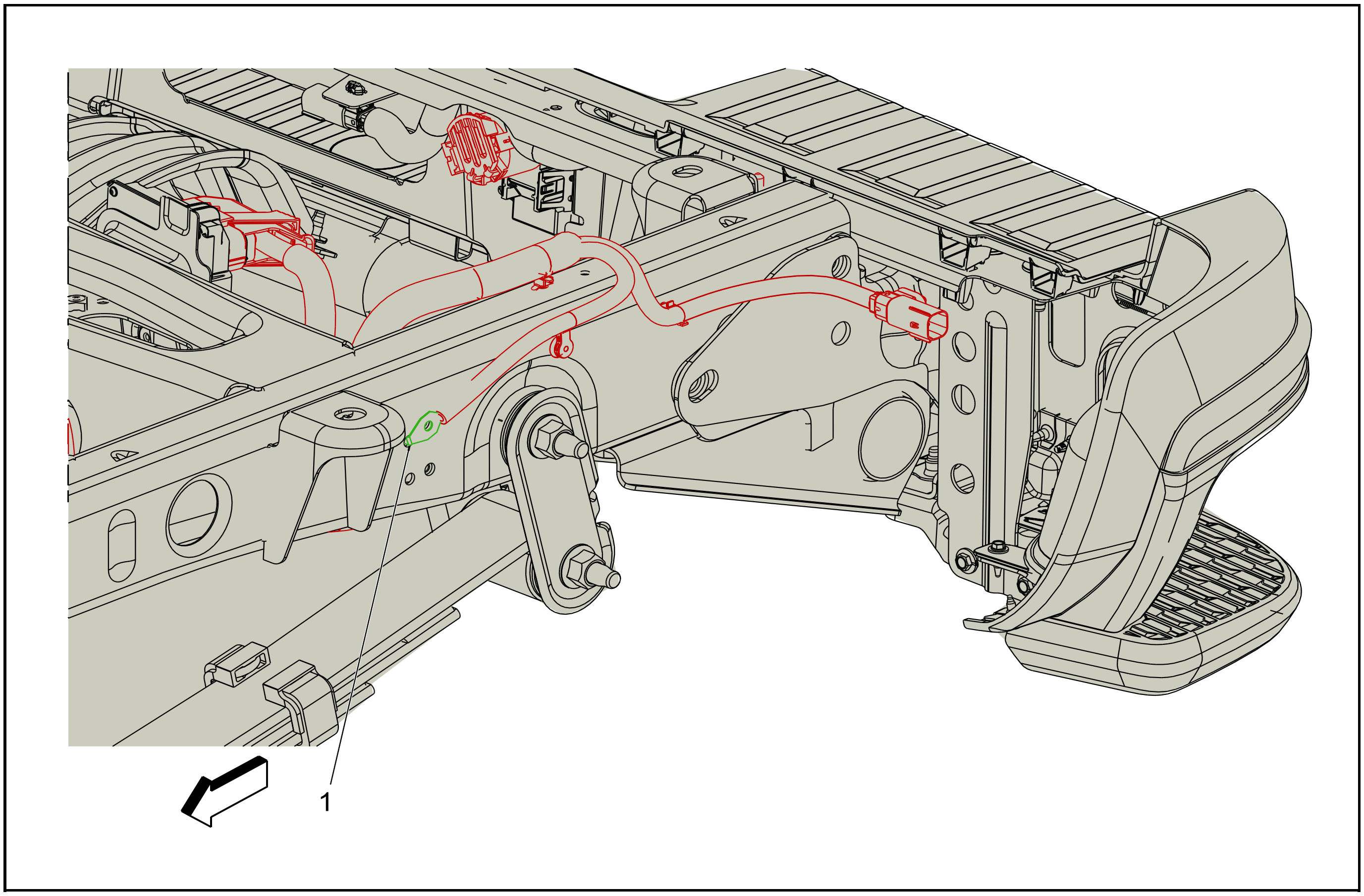


3936674

Items

(1)	G400 Chassis Harness

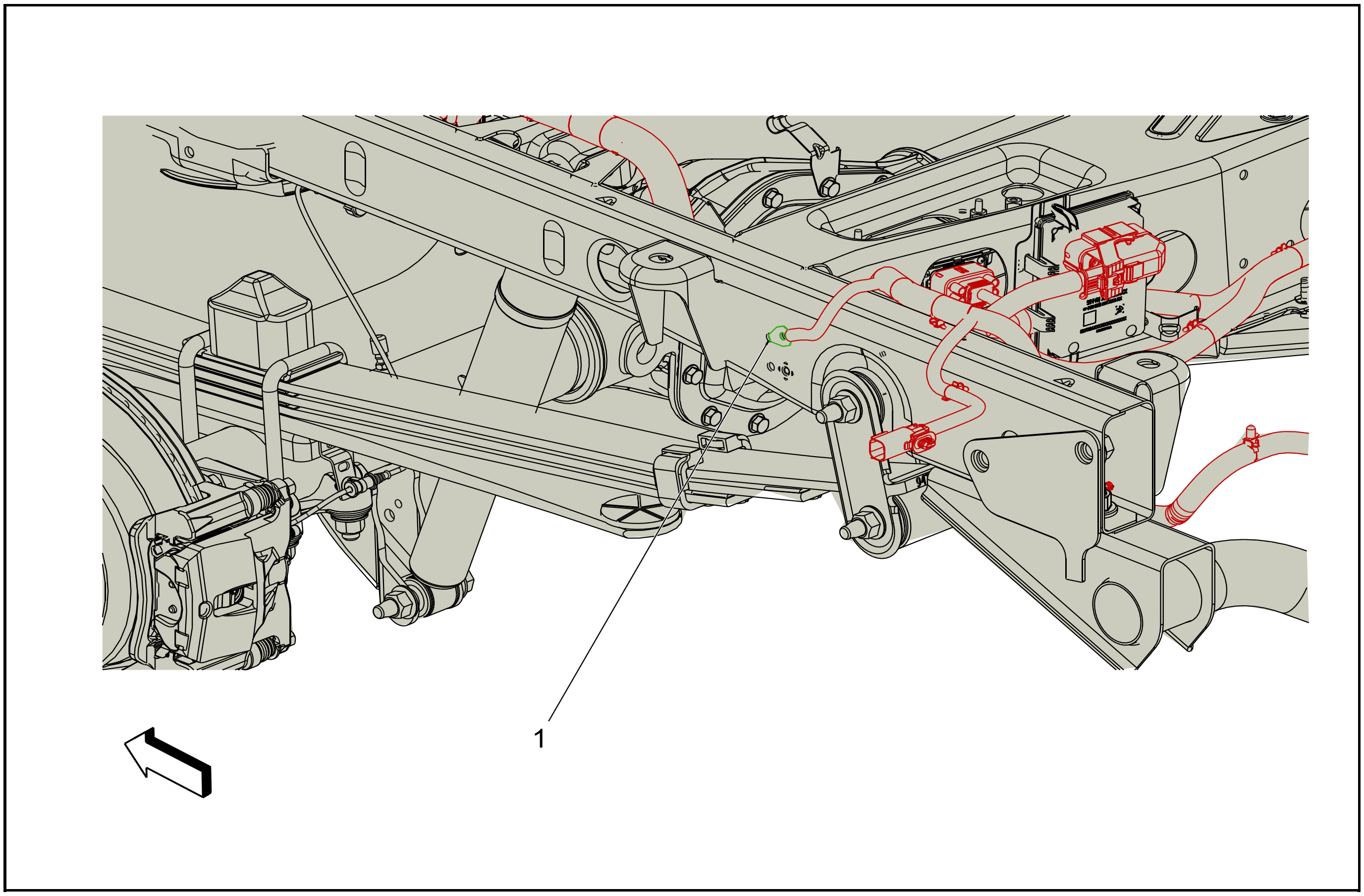
G401 (Crew Cab)



3936649

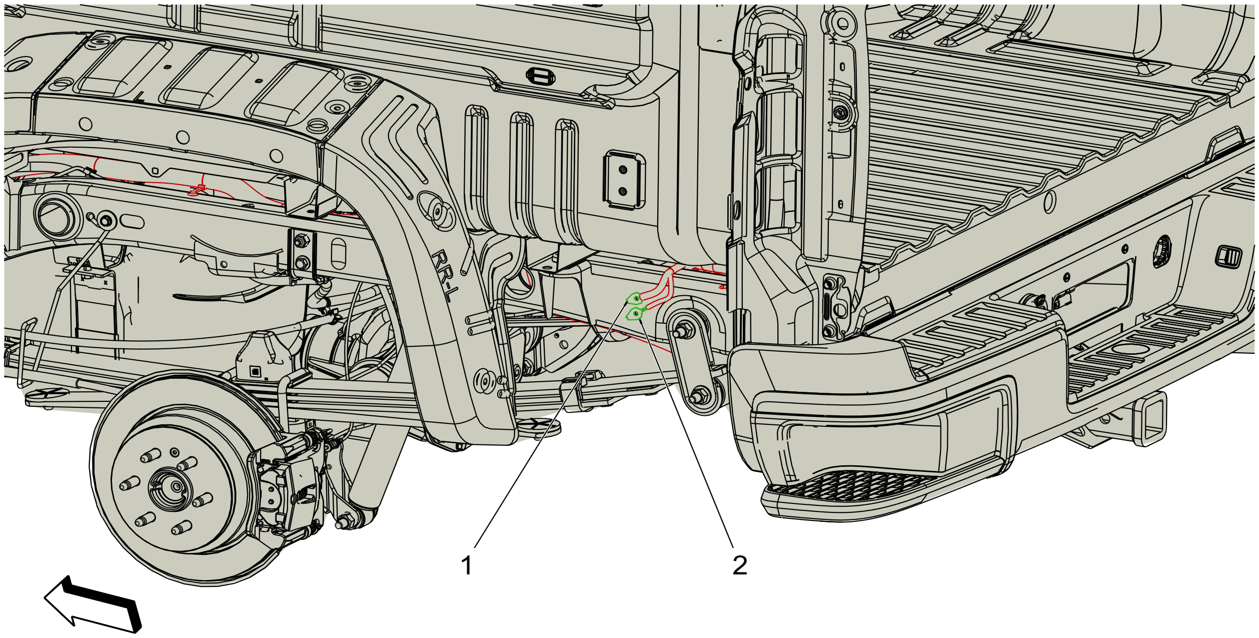
Items	
(1)	G401 Chassis Harness

G401 (Extended Cab)



	Items
(1)	G401 Chassis Harness

G401 and G404 (LWN)

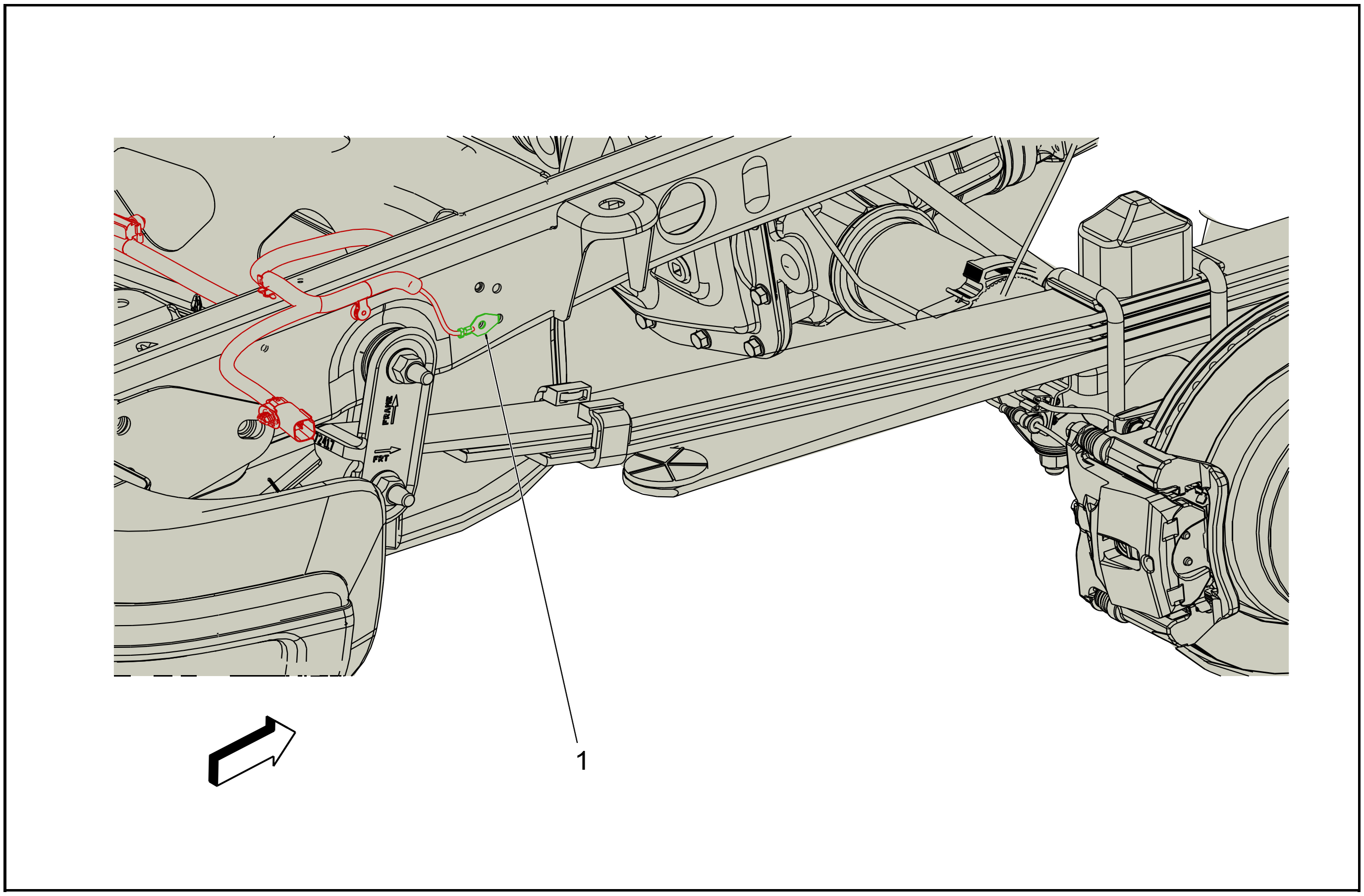


4122364

Items

(1)	G404 Chassis Harness (LWN)
(2)	G401 Chassis Harness

G402 (Crew Cab)

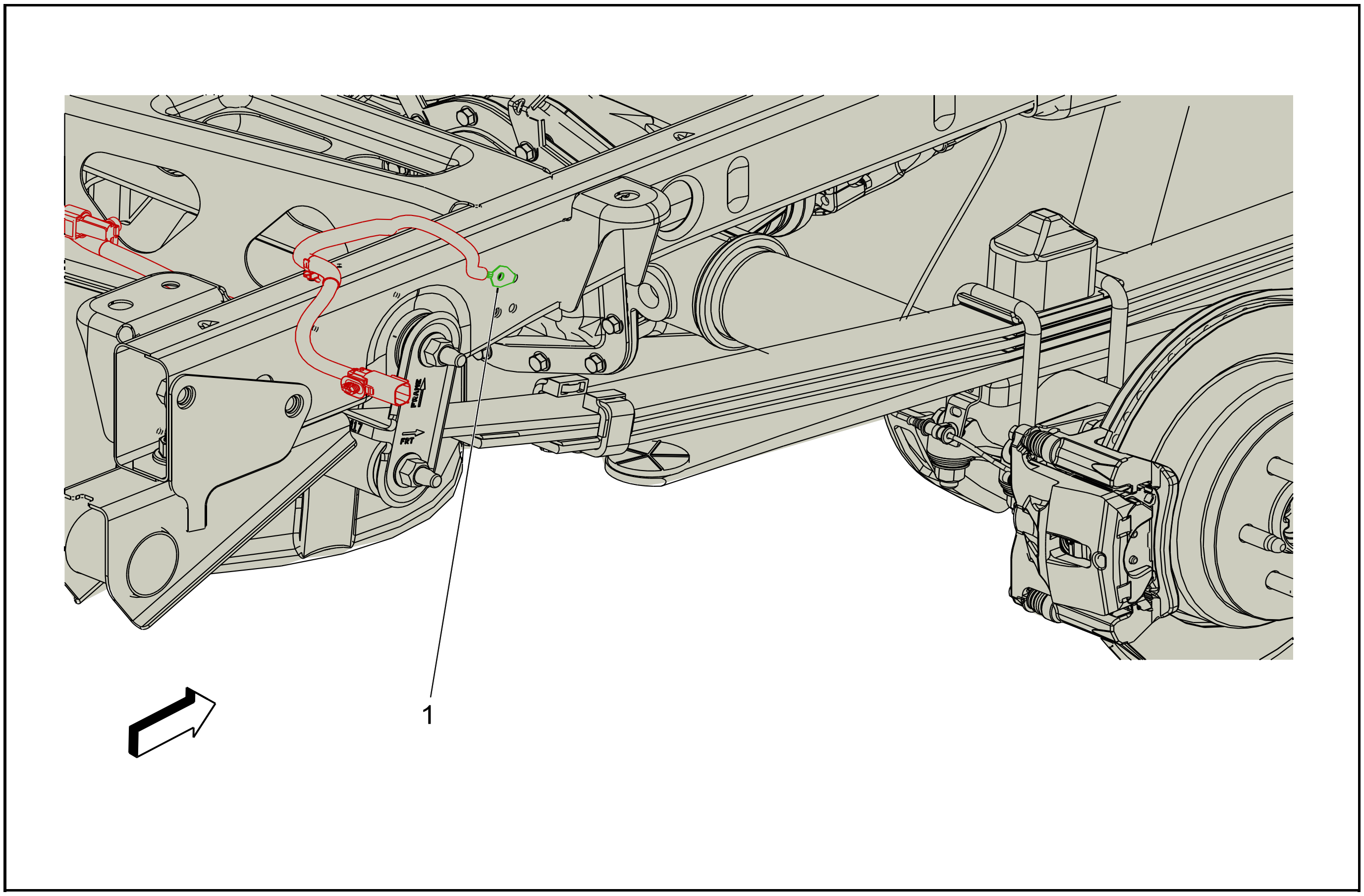


3936652

Items

(1)	G402 Chassis Harness

G402 (Extended Cab)



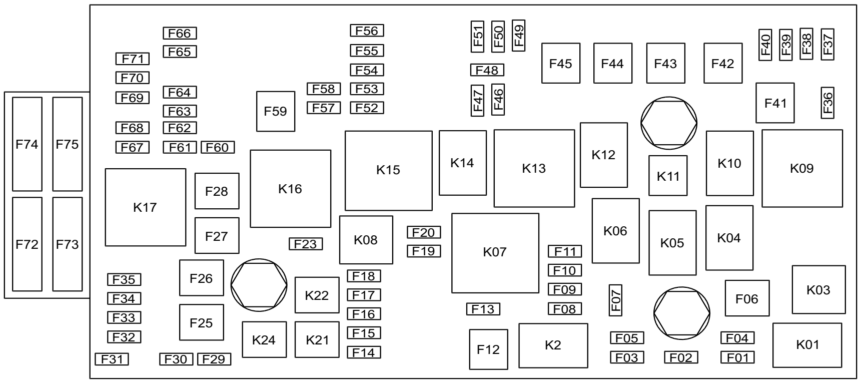
3937134

Items

(1)	G402 Chassis Harness

Electrical Center Identification Views

X50A Fuse Block - Underhood Label (LCV/LGZ/Gasoline)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*IF EQUIPPED

FUSES

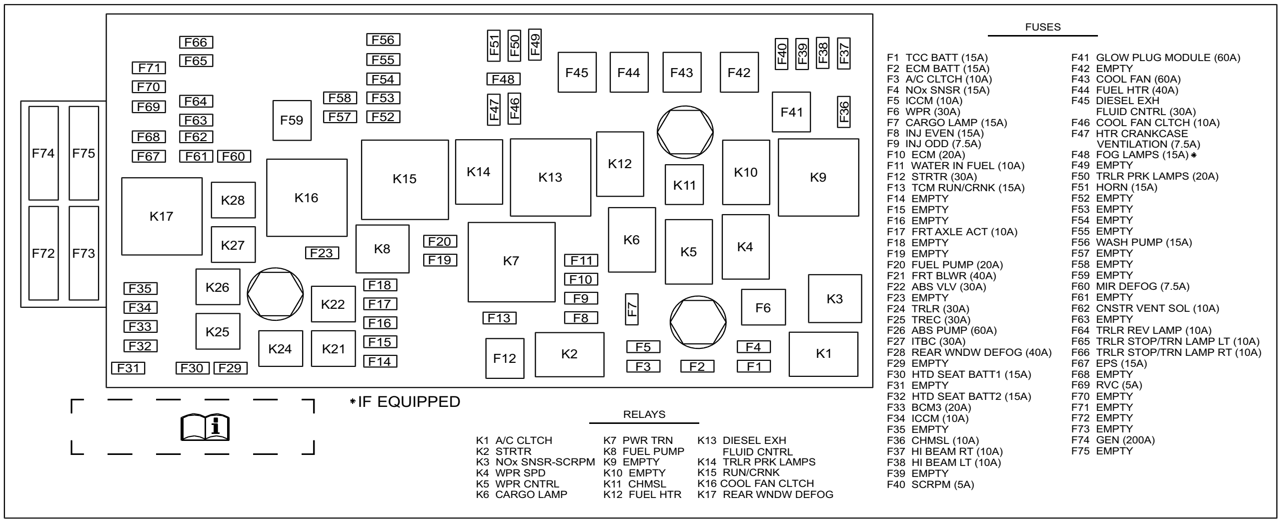
F01	TCC BATT (15A)
F02	ECM BATT (15A)
F03	A/C CLTCH (10A)
F04	EMPTY
F05	ECM / ICCM / RUN/ CRNK / FPPM (10A)
F06	WPR (30A)
F07	CARGO LAMP / BED LIGHTING (15A)
F08	INJ EVEN (15A)
F09	INJ ODD (15A)
F10	ECM 1 (25A)
F11	MISC 1 (10A)
F12	STRTR (30A)
F13	TCM (15A)
F14	EMPTY
F15	EMPTY
F16	EMPTY
F17	FRT AXLE ACT (10A)
F18	EMPTY
F19	EMPTY
F20	EMPTY
F21	FRT BLWR (40A)
F22	ABS VLV (30A)
F23	EMPTY
F24	TRLR (30A)
F25	TREC (30A)
F26	ABS PUMP (60A)
F27	TRLR BRK CNTRL MDL (30A)*
F28	REAR WNDW DEFOG (40A)
F29	EMPTY
F30	HTD SEAT DRVR (15A)
F31	EMPTY
F32	HTD SEAT PASS (15A)
F33	BCM 3 (20A)
F34	FPPM (30A)
F35	ICCM (30A)
F36	CHMSL (10A)
F37	HI BEAM RT (10A)
F38	HI BEAM LT (10A)
F39	RR DIFF LOCK ACT (15A)
F40	FRT DIFF LOCK ACT (15A)
F41	EMPTY
F42	EMPTY
F43	EMPTY
F44	EMPTY
F45	VAC PUMP (30A)
F46	ECM 2 (10A)
F47	MISC 2 (10A)
F48	FOG LAMP (15A)
F49	EMPTY
F50	TRLR PRK LAMP (20A)
F51	HORN (15A)
F52	EMPTY
F53	EMPTY
F54	EMPTY
F55	EMPTY
F56	WASH PUMP (15A)
F57	EMPTY
F58	EMPTY
F59	TRLR WRG (30A)
F60	MIR DEFOG (7.5A)
F61	EMPTY
F62	CNSTR VENT SOL (10A)
F63	EMPTY
F64	TRLR REV LAMP (10A)
F65	TRLR STOP/TRN LAMP LT (10A)
F66	TRLR STOP/TRN LAMP RT (10A)
F67	EPS (15A)
F68	EMPTY
F69	RVC (5A)
F70	EMPTY
F71	EMPTY
F72	EMPTY
F73	EMPTY
F74	GEN (200A)
F75	EMPTY

RELAYS

K01	A/C CLTCH
K02	STRTR
K03	EMPTY
K04	WPR SPD
K05	WPR CNTRL
K06	CARGO LAMP / BED LIGHTING*
K07	PWR/TRN
K08	EMPTY
K09	FRT DIFF LOCK ACT
K10	RR DIFF LOCK ACT
K11	CHMSL
K12	EMPTY
K13	VAC PUMP
K14	TRLR PRK LAMPS
K15	RUN/CRNK
K16	EMPTY
K17	REAR WNDW DEFOG

4815958

X50A Fuse Block - Underhood Label (LWN/Diesel)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✱IF EQUIPPED

FUSES

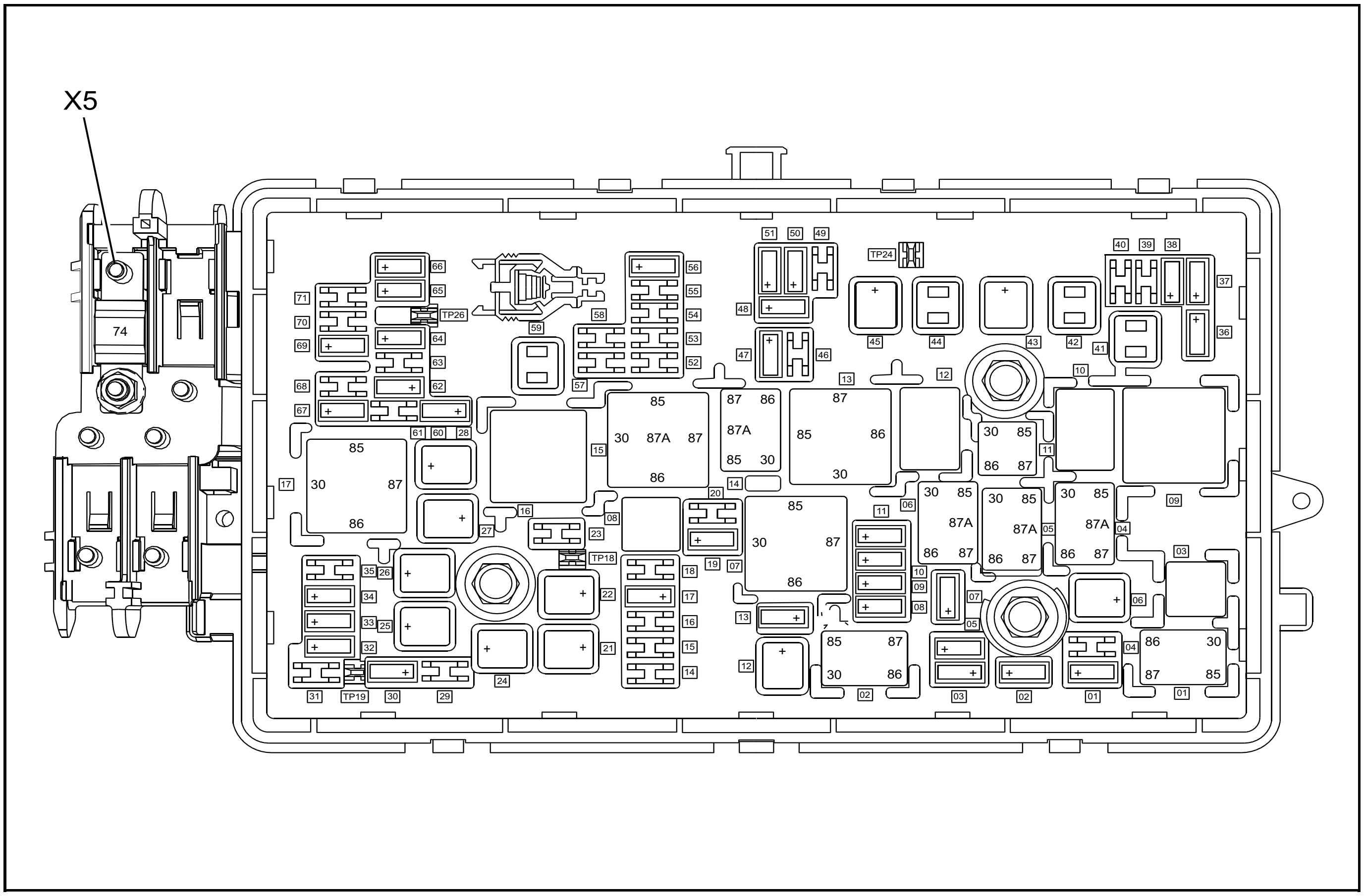
F1	TCC BATT (15A)
F2	ECM BATT (15A)
F3	A/C CLTCH (10A)
F4	NOx SNSR (15A)
F5	ICCM (10A)
F6	WPR (30A)
F7	CARGO LAMP (15A)
F8	INJ EVEN (15A)
F9	INJ ODD (7.5A)
F10	ECM (20A)
F11	WATER IN FUEL (10A)
F12	STRTR (30A)
F13	TCM RUN/CRNK (15A)
F14	EMPTY
F15	EMPTY
F16	EMPTY
F17	FRT AXLE ACT (10A)
F18	EMPTY
F19	EMPTY
F20	FUEL PUMP (20A)
F21	FRT BLWR (40A)
F22	ABS VLV (30A)
F23	EMPTY
F24	TRLR (30A)
F25	TREC (30A)
F26	ABS PUMP (60A)
F27	ITBC (30A)
F28	REAR WNDW DEFOG (40A)
F29	EMPTY
F30	HTD SEAT BATT1 (15A)
F31	EMPTY
F32	HTD SEAT BATT2 (15A)
F33	BCM3 (20A)
F34	ICCM (10A)
F35	EMPTY
F36	CHMSL (10A)
F37	HI BEAM RT (10A)
F38	HI BEAM LT (10A)
F39	EMPTY
F40	SCRPM (5A)
F41	GLOW PLUG MODULE (60A)
F42	EMPTY
F43	COOL FAN (60A)
F44	FUEL HTR (40A)
F45	DIESEL EXH FLUID CNTRL (30A)
F46	COOL FAN CLTCH (10A)
F47	HTR CRANKCASE VENTILATION (7.5A)
F48	FOG LAMPS (15A)✱
F49	EMPTY
F50	TRLR PRK LAMPS (20A)
F51	HORN (15A)
F52	EMPTY
F53	EMPTY
F54	EMPTY
F55	EMPTY
F56	WASH PUMP (15A)
F57	EMPTY
F58	EMPTY
F59	EMPTY
F60	MIR DEFOG (7.5A)
F61	EMPTY
F62	CNSTR VENT SOL (10A)
F63	EMPTY
F64	TRLR REV LAMP (10A)
F65	TRLR STOP/TRN LAMP LT (10A)
F66	TRLR STOP/TRN LAMP RT (10A)
F67	EPS (15A)
F68	EMPTY
F69	RVC (5A)
F70	EMPTY
F71	EMPTY
F72	EMPTY
F73	EMPTY
F74	GEN (200A)
F75	EMPTY

RELAYS

K1	A/C CLTCH
K2	STRTR
K3	NOx SNSR-SCRPM
K4	WPR SPD
K5	WPR CNTRL
K6	CARGO LAMP
K7	PWR TRN
K8	FUEL PUMP
K9	EMPTY
K10	EMPTY
K11	CHMSL
K12	FUEL HTR
K13	DIESEL EXH FLUID CNTRL
K14	TRLR PRK LAMPS
K15	RUN/CRNK
K16	COOL FAN CLTCH
K17	REAR WNDW DEFOG

4650162

X50A Fuse Block - Underhood Top View (LCV/LGZ/Gasoline)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4816016

Usage Table

No.	Device Label Name	Device Assigned Name	Rating	Description
Fuses				
F1	TCM BATT	F1UA	15A	• K71 Transmission Control Module (MYB) • Q8 Control Solenoid Valve Assembly (MYB)
F2	ECM BATT	F2UA	15A	• K20 Engine Control Module
F3	A/C CLTCH	F3UA	10A	• KR29 A/C Compressor Clutch Relay • Q2 A/C Compressor Clutch
F4	EMPTY	F4UA	—	• Not Used
F5	FUEL MDL RUN/ CRNK	F5UA	10A	• K20 Engine Control Module • K38 Chassis Control Module • K71 Transmission Control Module (MYB) • K111 Fuel Pump Driver Control Module • Q8 Control Solenoid Valve Assembly (MYB)
F6	WPR	F6UA	30A	• KR12B Windshield Wiper Relay • KR12C Windshield Wiper Speed Control Relay
F7	CARGO LAMP	F7UA	15A	• KR112 Cargo Lamp Relay
F8	INJ EVEN	F8UA	15A	• K20 Engine Control Module (LGZ) • T8B Ignition Coil 2 (LGZ) • T8D Ignition Coil 4 (LGZ) • T8F Ignition Coil 6 (LGZ)

Usage Table (cont'd)

No.	Device Label Name	Device Assigned Name	Rating	Description
F9	INJ ODD	F9UA	15A	• K20 Engine Control Module • T8A Ignition Coil 1 (LCV) • T8A Ignition Coil 1 (LGZ) • T8B Ignition Coil 2 (LCV) • T8C Ignition Coil 3 (LCV) • T8C Ignition Coil 3 (LGZ) • T8D Ignition Coil 4 (LCV) • T8E Ignition Coil 5 (LGZ)
F10	ECM	F10UA	20A	• K20 Engine Control Module
F11	MISC 1	F11UA	10A	• B52B Heated Oxygen Sensor 2 (LCV) • B52D Heated Oxygen Sensor - Bank 1 Sensor 2 (LGZ) • B52F Heated Oxygen Sensor - Bank 2Sensor 2 (LGZ) • B75C Multifunction Intake Air Sensor • K20 Engine Control Module
F12	STRTR	F12UA	30A	• KR27 Starter Relay
F13	TCM	F13UA	15A	• K71 Transmission Control Module (MYB)
F14	EMPTY	F14UA	—	• Not Used
F15	EMPTY	F15UA	—	• Not Used
F16	EMPTY	F16UA	—	• Not Used
F17	FRT AXLE ACT	F17UA	10A	• M26 Front Axle Engagement Actuator (NQ6/NQ7)
F18	EMPTY	F18UA	—	• Not Used
F19	AERO SHTR	F19UA	10A	• M96 Active Grille Air Shutter Actuator
F20	EMPTY	F20UA	—	• Not Used
F21	FRT BLWR	F21UA	40A	• K8 Blower Motor Control Module
F22	ABS VLV	F22UA	30A	• K17 Electronic Brake Control Module
F23	EMPTY	F23UA	—	• Not Used
F24	TRLR	F24UA	30A	• W8 Blunt Cut - Trailer Provision • X88 Trailer Connector (Z82)
F25	TREC	F25UA	30A	• A16 Transfer Case Motor (NQ6/NQ7) • K69 Transfer Case Control Module (NQ6/NQ7)
F26	ABS PUMP	F26UA	60A	• K17 Electronic Brake Control Module
F27	TRLR BRK CNTRL MDL	F27UA	30A	• K133 Trailer Brake Power Control module (Z82) • W24 Blunt Cut - Trailer Brakes Provision (Z82)
F28	REAR WNDW DEFOG	F28UA	40A	• F63UA • E18 Rear Defogger Grid (C49)
F29	EMPTY	F29UA	—	• Not Used
F30	HTD SEAT BATT1	F30UA	15A	• K29 Seat Heating Control Module (KA1)
F31	EMPTY	F31UA	—	• Not Used
F32	HTD SEAT BATT2	F32UA	15A	• K29 Seat Heating Control Module (KA1)
F33	BCM 3	F33UA	20A	• K9 Body Control Module
F34	FSCM	F34UA	30A	• K111 Fuel Pump Driver Control Module (LCV)
F35	FSCM	F35UA	30A	• K38 Chassis Control Module (LGZ)
F36	CHMSL	F36UA	10A	• KR41 Center High Mounted Stop Lamp Relay
F37	HI BEAM RT	F37UA	10A	• E4F Headlamp – Right High Beam
F38	HI BEAM LT	F38UA	10A	• E4E Headlamp – Left High Beam

Usage Table (cont'd)

No.	Device Label Name	Device Assigned Name	Rating	Description
F39	RR DIFF LOCK ACT	F39UA	15A	• Rear Differential Lock Control Actuator
F40	FRT DIFF LOCK ACT	F40UA	15A	• Front Differential Lock Control Actuator
F41	EMPTY	F41UA	—	• Not Used
F42	EMPTY	F42UA	—	• Not Used
F43	COOL FAN	F43UA	60A	• K22 Cooling Fan Control Module
F44	EMPTY	F44UA	—	• Not Used
F45	VAC PUMP	F45UA	30A	• KR14 Brake Booster Pump Motor Relay (LGZ)
F46	EMPTY	F46UA	—	• K20 Engine Control Module (LGZ)
F47	MISC 2	F47UA	10A	• B52A Heated Oxygen Sensor 1 (LCV) • B52C Heated Oxygen Sensor - Bank 1 Sensor 1 (LGZ) • B52E Heated Oxygen Sensor - Bank 2 Sensor 1 (LGZ) • E41 Engine Coolant Thermostat Heater (LCV) • K20 Engine Control Module (LCV) • Q12 Evaporative Emission Purge Solenoid Valve • Q44 Engine Oil Pressure Control Solenoid Valve (LCV) • Q83A Valve Lifter Oil Solenoid Valve Bank 1 (LGZ) • Q83B Valve Lifter Oil Solenoid Valve Bank 2 (LGZ) • Q84A Camshaft Position Actuator Park Lock Solenoid Valve - Bank 1 Intake (LGZ) • Q84B Camshaft Position Actuator park Lock Solenoid Valve - Bank 2 Intake (LGZ)
F48	FOG LAMP	F48UA	15A	• E29LF Fog Lamp – Left Front (T3U) • E29RF Fog Lamp – Right Front (T3U)
F49	EMPTY	F49UA	—	• Not Used
F50	TRLR PRK LAMP	F50UA	20A	• W8 Blunt Cut - Trailer Provision • X88 Trailer Connector (Z82)
F51	HORN	F51UA	15A	• P13 Horn Assembly
F52	EMPTY	F52UA	—	• Not Used
F53	EMPTY	F53UA	—	• Not Used
F54	EMPTY	F54UA	—	• Not Used
F55	EMPTY	F55UA	—	• Not Used
F56	WASH PUMP	F56UA	15A	• G24 Windshield Washer Pump
F57	EMPTY	F57UA	—	• Not Used
F58	EMPTY	F58UA	—	• Not Used
F59	EMPTY	F59UA	—	• Not Used
F60	MIR DEFOG	F60UA	7.5A	• E17D Outside Rearview Mirror Glass – Driver (DL9) • E17P Outside Rearview Mirror Glass – Passenger (DL9)
F61	EMPTY	F61UA	—	• Not Used
F62	CNSTR VENT SOL	F62UA	10A	• Q13 Evaporative Emission Vent Solenoid Valve
F63	EMPTY	F63UA	—	• Not Used
F64	TRLR REV LAMP	F64UA	10A	• KR61 Trailer Backup Lamps Relay

Usage Table (cont'd)

No.	Device Label Name	Device Assigned Name	Rating	Description
F65	TRLR STOP/TRN LAMP LT	F65UA	10A	• W8 Blunt Cut - Trailer Provision • X88 Trailer Connector (Z82)
F66	TRLR STOP/TRN LAMP RT	F66UA	10A	• KR63R Trailer Stop/Turn Signal Lamp Relay - Right
F67	EPS	F67UA	15A	• K43 Power Steering Control Module
F68	EMPTY	F68UA	—	• Not Used
F69	RVC	F69UA	5A	• K9 Body Control Module
F70	EMPTY	F70UA	—	• Not Used
F71	EMPTY	F71UA	—	• Not Used
F72	EMPTY	F72UB	—	• Not Used
F73	EMPTY	F73UB	—	• Not Used
F74	GEN	F74UB	200A	• G13 Generator
F75	EMPTY	F75UB	—	• Not Used
Relays				
K1	A/C CLTCH	KR29 A/C Compressor Clutch Relay	—	• Q2 A/C Compressor Clutch
K2	STRTR	KR27 Starter Relay	—	• M64 Starter Motor
K3	EMPTY	—	—	• Not Used
K4	WPR SPD	KR12C Windshield Wiper Speed Control Relay	—	• M75 Windshield Wiper Motor
K5	WPR CNTRL	KR12B Windshield Wiper Relay	—	• M75 Windshield Wiper Motor
K6	CARGO LAMP	KR112 Cargo Lamp Relay	—	• E6 Center High Mounted Stop Lamp
K7	PWR TRN	KR75 Engine Controls Ignition Relay	—	• F8UA • F9UA • F10UA • F11UA • F47UA • KR29 A/C Compressor Clutch Relay
K8	EMPTY	—	—	• Not Used
K9	FRT DIFF LOCK ACT	KR175A Front Differentail Lock Actuator High Contorl Relay	—	• Q9F Differential Lock Actuator - Front • K38A Chassis Control Module - Auxiliary
K10	RR DIFF LOCK ACT	KR176A Rear Differential Lock Actuator High Control Relay	—	• Q9R Differential Lock Actuator - Rear • K38A Chassis Control Module - Auxiliary
K11	CHMSL	KR41 Center High Mounted Stop Lamp Relay	—	• E6 Center High Mounted Stop Lamp
K12	EMPTY	—	—	• Not Used
K13	VAC PUMP	KR14 Brake Booster Pump Motor Relay	—	• M9 Brake Booster Pump Motor (LGZ)
K14	PRK LAMPS	KR125 Trailer Park Lamps Relay	—	• F50UA

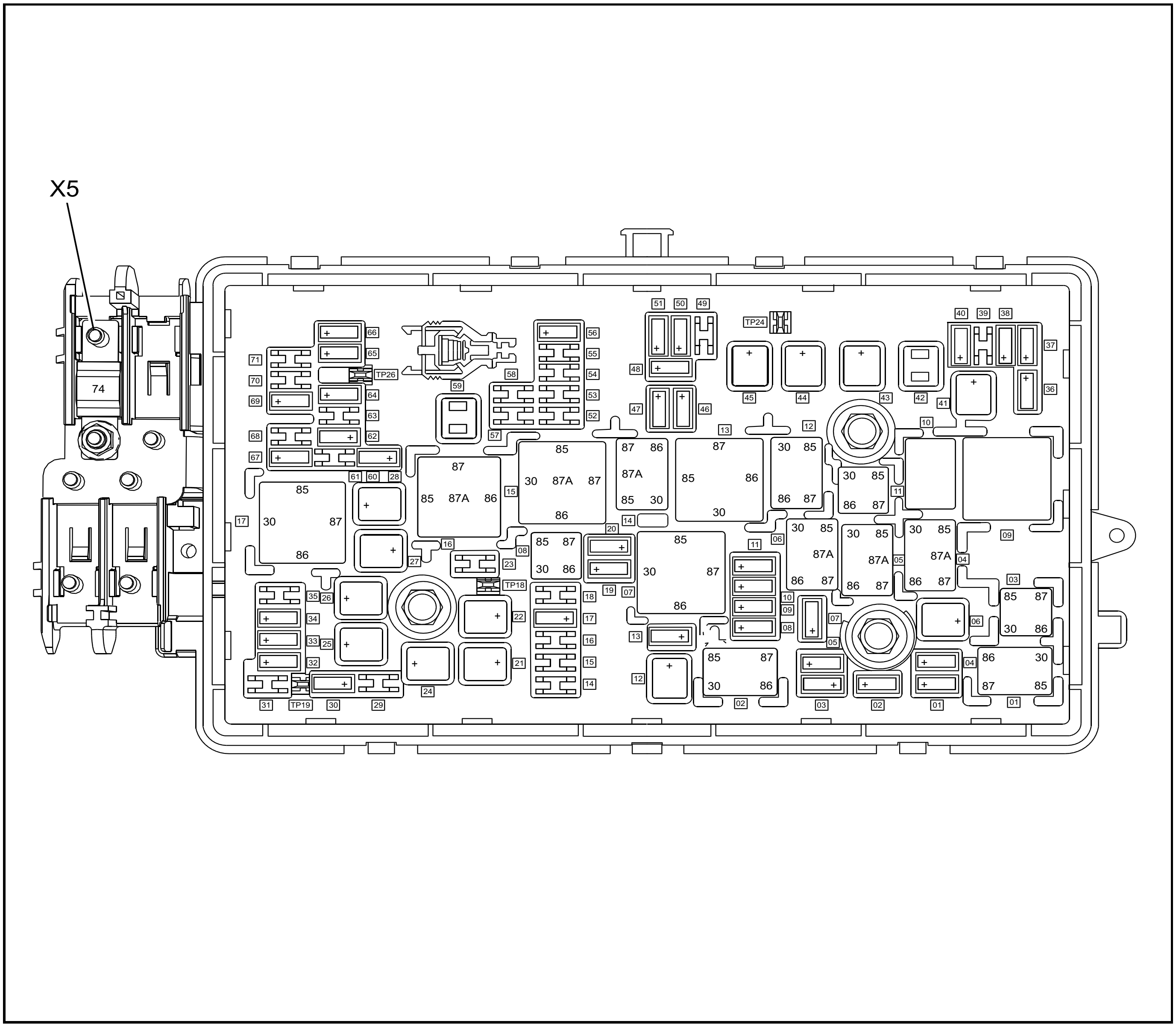
Usage Table (cont'd)

No.	Device Label Name	Device Assigned Name	Rating	Description
K15	RUN/CRNK	KR73 Ignition Main Relay	—	• F5UA • F13UA • F16UA • F17UA • F18UA • F19UA • F52UA • F53UA • F54UA • F57UA
K16	EMPTY	—	—	• Not Used
K17	REAR WNDW DEFOG	KR5 Rear Defogger Relay	—	• F28UA • F60UA • F63UA • E17D Outside Rearview Mirror Glass – Driver (DL9) • E17P Outside Rearview Mirror Glass – Passenger (DL9) • E18 Rear Defogger Grid (C49)
Note: Relays listed below are non-serviceable Printed Circuit Board (PCB) relays and are internal to the block.				
—	—	KR3 Horn Relay	—	• F51UA
—	—	KR11 Windshield Washer Pump Relay	—	• F56UA
—	—	KR46 Front Fog Lamp Relay	—	• F48UA
—	—	KR48 Headlamp High Beam Relay	—	• F37UA • F38UA
—	—	KR61 Trailer Backup Lamps Relay	—	• P3 Backup Alarm (8S3) • W8 Blunt Cut - Trailer Provision • X88 Trailer Connector (Z82)
—	—	KR63L Trailer Stop/Turn Signal Lamp Relay - Left	—	• F65UA • X88 Trailer Connector (Z82) • W8 Blunt Cut - Trailer Provision
—	—	KR63R Trailer Stop/Turn Signal Lamp Relay - Right	—	• W8 Blunt Cut - Trailer Provision • X88 Trailer Connector (Z82)
—	—	KR113 Child Security Lock Disable Relay	—	• A23LR Door Latch Assembly - Left Rear • A23P Door Latch Assembly - Passenger • A23RR Door Latch Assembly - Right Rear
—	—	KR175B Front Differential Lock Actuator Low Control Relay	—	• Q9F Differential Lock Actuator - Front • K38A Chassis Control Module - Auxiliary
—	—	KR176B Rear Differential Lock Actuator Low Control Relay	—	• Q9R Differential Lock Actuator - Rear • K38A Chassis Control Module - Auxiliary
Note: Items listed below are diagnostic testing points.				
TP19	—	TP19	—	• Not Used
Note: Items listed below are Door Lock/Indicator system diagnostic testing points.				
TP18	CKT 3271	TP18	—	• KR113 Child Security Lock Disable Relay

Usage Table (cont'd)

No.	Device Label Name	Device Assigned Name	Rating	Description
Note: Items listed below are Trailer Connector/Provision system diagnostic testing points.				
TP24	CKT 1619	TP24	—	• KR63R Trailer Stop/Turn Signal Lamp Relay - Right
TP26	CKT 1624	TP26	—	• KR61 Trailer Backup Lamps Relay

X50A Fuse Block - Underhood Top View (LWN/Diesel)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Usage Table

No.	Device Label Name	Device Assigned Name	Rating	Description
Fuses				
F1	TCM BATT	F1UA	15A	• K71 Transmission Control Module (MYB) • Q8 Control Solenoid Valve Assembly (MYB)
F2	ECM BATT	F2UA	15A	• K20 Engine Control Module

Usage Table (cont'd)

No.	Device Label Name	Device Assigned Name	Rating	Description
F3	A/C CLTCH	F3UA	10A	• KR29 A/C Compressor Clutch Relay • Q2 A/C Compressor Clutch
F4	NOx SNSR	F4UA	15A	• B136 Exhaust Particulate Matter Sensor (LWN) • B195A Nitrogen Oxides Sensor 1 (LWN) • B195B Nitrogen Oxides Sensor 2 (LWN)
F5	ICCM	F5UA	10A	• B116 Water in Fuel Sensor • K20 Engine Control Module • K71 Transmission Control Module (MYB) • Q8 Control Solenoid Valve Assembly (MYB)
F6	WPR	F6UA	30A	• KR12B Windshield Wiper Relay • KR12C Windshield Wiper Speed Control Relay
F7	CARGO LAMP	F7UA	15A	• KR112 Cargo Lamp Relay
F8	INJ EVEN	F8UA	15A	• K20 Engine Control Module
F9	INJ ODD	F9UA	7.5A	• K20 Engine Control Module
F10	ECM	F10UA	20A	• K20 Engine Control Module
F11	WATER IN FUEL	F11UA	10A	• B75C Multifunction Intake Air Sensor
F12	STRTR	F12UA	30A	• KR27 Starter Relay
F13	TCM RUN/CRNK	F13UA	15A	• K71 Transmission Control Module (MYB) • Q8 Control Solenoid Valve Assembly (MYB)
F14	EMPTY	F14UA	—	• Not Used
F15	EMPTY	F15UA	—	• Not Used
F16	EMPTY	F16UA	—	• Not Used
F17	FRT AXLE ACT	F17UA	10A	• M26 Front Axle Engagement Actuator (NQ6/NQ7)
F18	EMPTY	F18UA	—	• Not Used
F19	EMPTY	F19UA	—	• Not Used
F20	FUEL PUMP	F20UA	20A	• KR23A Fuel Pump Relay
F21	FRT BLWR	F21UA	40A	• K8 Blower Motor Control Module
F22	ABS VLV	F22UA	30A	• K17 Electronic Brake Control Module
F23	EMPTY	F23UA	—	• Not Used
F24	TRLR	F24UA	30A	• X88 Trailer Connector (Z82)
F25	TREC	F25UA	30A	• A16 Transfer Case Motor (NQ6/NQ7) • K69 Transfer Case Control Module (NQ6/NQ7)
F26	ABS PUMP	F26UA	60A	• K17 Electronic Brake Control Module
F27	ITBC	F27UA	30A	• K133 Trailer Brake Power Control module (Z82) • W24 Blunt Cut - Trailer Brakes Provision (Z82)
F28	REAR WNDW DEFOG	F28UA	40A	• F63UA • E18 Rear Defogger Grid (C49)
F29	EMPTY	F29UA	—	• Not Used
F30	HTD SEAT BATT1	F30UA	15A	• K29 Seat Heating Control Module (KA1)
F31	EMPTY	F31UA	—	• Not Used
F32	HTD SEAT BATT2	F32UA	15A	• K29 Seat Heating Control Module (KA1)
F33	BCM 3	F33UA	20A	• K9 Body Control Module
F34	ICCM	F34UA	10A	• K38 Chassis Control Module
F35	EMPTY	F35UA	—	• Not Used
F36	CHMSL	F36UA	10A	• KR41 Center High Mounted Stop Lamp Relay

Usage Table (cont'd)

No.	Device Label Name	Device Assigned Name	Rating	Description
F37	HI BEAM RT	F37UA	10A	• E4F Headlamp – Right High Beam
F38	HI BEAM LT	F38UA	10A	• E4E Headlamp – Left High Beam
F39	EMPTY	F39UA	—	• Not Used
F40	SCRPN	F40UA	5A	• K115 Reductant Control Module
F41	GLOW PLUG MODULE	F41UA	60A	• K20 Engine Control Module
F42	EMPTY	F42UA	—	• Not Used
F43	COOL FAN	F43UA	60A	• K22 Cooling Fan Control Module
F44	FUEL HTR	F44UA	40A	• KR22 Fuel Heater Relay
F45	DIESEL EXH FLUID CNTRL	F45UA	30A	• KR121A Reductant Control Module Relay 1
F46	COOL FAN CLTCH	F46UA	10A	• KR20F Cooling Fan Relay
F47	HTR CRANKCASE VENTILATION	F47UA	7.5A	• E45 Positive Crankcase Ventilation Heater
F48	FOG LAMPS	F48UA	15A	• E29LF Fog Lamp – Left Front (T3U) • E29RF Fog Lamp – Right Front (T3U)
F49	EMPTY	F49UA	—	• Not Used
F50	TRLR PRK LAMPS	F50UA	20A	• X88 Trailer Connector (Z82)
F51	HORN	F51UA	15A	• P13 Horn Assembly
F52	EMPTY	F52UA	—	• Not Used
F53	EMPTY	F53UA	—	• Not Used
F54	EMPTY	F54UA	—	• Not Used
F55	EMPTY	F55UA	—	• Not Used
F56	WASH PUMP	F56UA	15A	• G24 Windshield Washer Pump
F57	EMPTY	F57UA	—	• Not Used
F58	EMPTY	F58UA	—	• Not Used
F59	EMPTY	F59UA	—	• Not Used
F60	MIR DEFOG	F60UA	7.5A	• E17D Outside Rearview Mirror Glass – Driver (DL9) • E17P Outside Rearview Mirror Glass – Passenger (DL9)
F61	EMPTY	F61UA	—	• Not Used
F62	CNSTR VENT SOL	F62UA	10A	• K115 Reductant Control Module
F63	EMPTY	F63UA	—	• Not Used
F64	TRLR REV LAMP	F64UA	10A	• KR61 Trailer Backup Lamps Relay
F65	TRLR STOP/TRN LAMP LT	F65UA	10A	• X88 Trailer Connector (Z82)
F66	TRLR STOP/TRN LAMP RT	F66UA	10A	• KR63R Trailer Stop/Turn Signal Lamp Relay - Right
F67	EPS	F67UA	15A	• K43 Power Steering Control Module
F68	EMPTY	F68UA	—	• Not Used
F69	RVC	F69UA	5A	• K9 Body Control Module
F70	EMPTY	F70UA	—	• Not Used
F71	EMPTY	F71UA	—	• Not Used
F72	EMPTY	F72UB	—	• Not Used
F73	EMPTY	F73UB	—	• Not Used

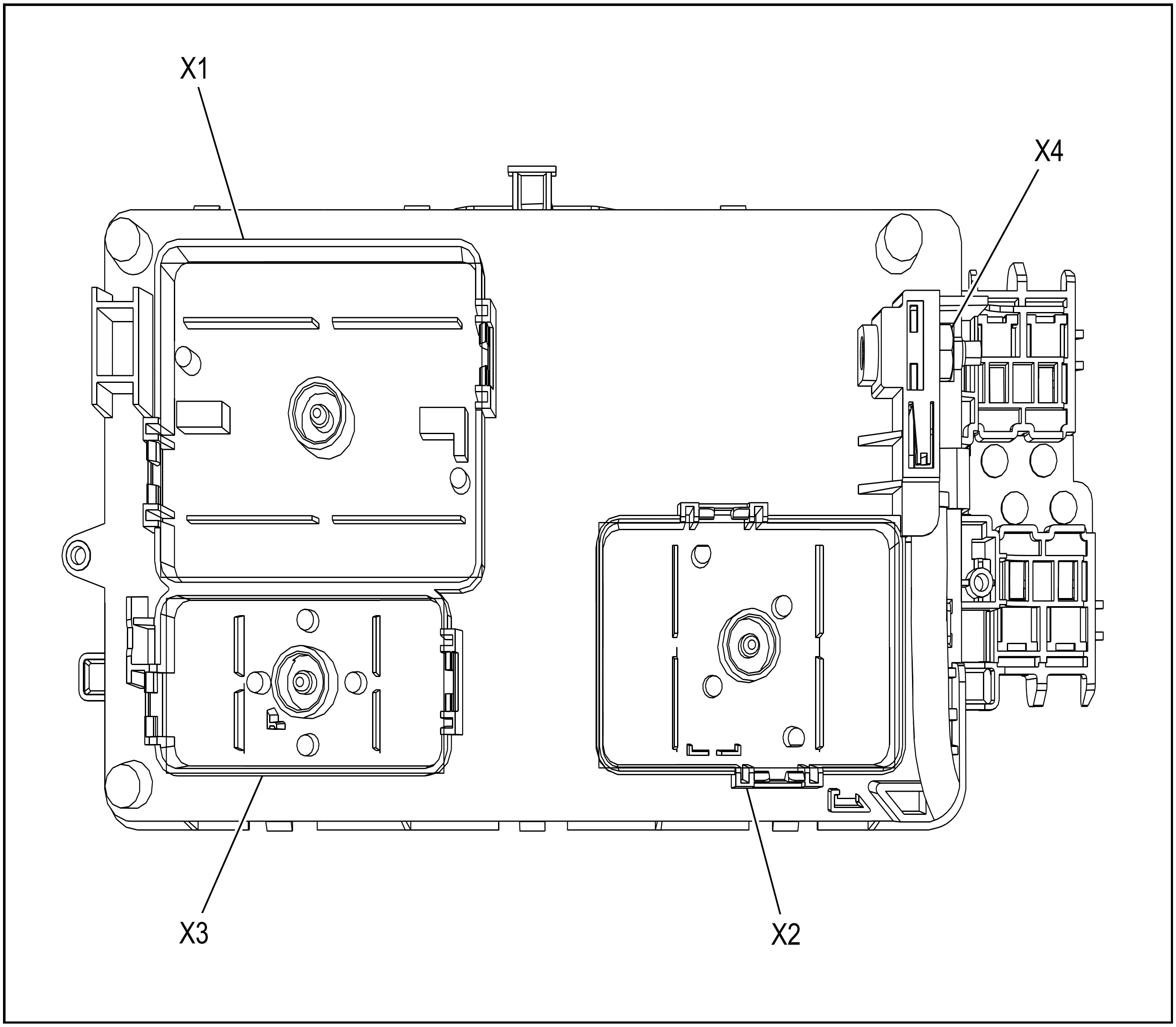
Usage Table (cont'd)

No.	Device Label Name	Device Assigned Name	Rating	Description
F74	GEN	F74UB	200A	- G13 Generator
F75	EMPTY	F75UB	—	- Not Used
Relays				
K1	A/C CLTCH	KR29 A/C Compressor Clutch Relay	—	- Q2 A/C Compressor Clutch
K2	STRTR	KR27 Starter Relay	—	- M64 Starter Motor
K3	NOx SNSR-SCRPM	KR121B Reductant Control Module Relay 2	—	- F4UA - F44UA - B136 Exhaust Particulate Matter Sensor - B195A Nitrogen Oxides Sensor 1 - B195B Nitrogen Oxides Sensor 2 - K115 Reductant Control Module
K4	WPR SPD	KR12C Windshield Wiper Speed Control Relay	—	- M75 Windshield Wiper Motor
K5	WPR CNTRL	KR12B Windshield Wiper Relay	—	- M75 Windshield Wiper Motor
K6	CARGO LAMP	KR112 Cargo Lamp Relay	—	- E6 Center High Mounted Stop Lamp
K7	PWR TRN	KR75 Engine Controls Ignition Relay	—	- F8UA - F9UA - F10UA - F11UA - F47UA - KR29 A/C Compressor Clutch Relay
K8	FUEL PUMP	KR23A Fuel Pump Relay	—	- A7 Fuel Pump and Level Sensor - Assembly
K9	EMPTY	—	—	- Not Used
K10	EMPTY	—	—	- Not Used
K11	CHMSL	KR41 Center High Mounted Stop Lamp Relay	—	- E6 Center High Mounted Stop Lamp
K12	FUEL HTR	KR22 Fuel Heater Relay	—	- E11B Fuel Heater/Temperature Sensor
K13	DIESEL EXH FLUID CNTRL	KR121A Reductant Control Module Relay 1	—	- K115 Reductant Control Module
K14	PRK LAMPS	KR125 Trailer Park Lamps Relay	—	- F50UA
K15	RUN/CRNK	KR73 Ignition Main Relay	—	- F5UA - F13UA - F16UA - F17UA - F18UA - F19UA - F52UA - F53UA - F54UA - F57UA
K16	COOL FAN CLTCH	KR20F Cooling Fan Relay	—	- K22 Cooling Fan Control Module

Usage Table (cont'd)

No.	Device Label Name	Device Assigned Name	Rating	Description
K17	REAR WNDW DEFOG	KR5 Rear Defogger Relay	—	• F28UA • F60UA • F63UA • E17D Outside Rearview Mirror Glass – Driver (DL9) • E17P Outside Rearview Mirror Glass – Passenger (DL9) • E18 Rear Defogger Grid (C49)
Note: Relays listed below are non-serviceable Printed Circuit Board (PCB) relays and are internal to the block.				
—	—	KR3 Horn Relay	—	• F51UA
—	—	KR11 Windshield Washer Pump Relay	—	• F56UA
—	—	KR46 Front Fog Lamp Relay	—	• F48UA
—	—	KR48 Headlamp High Beam Relay	—	• F37UA • F38UA
—	—	KR61 Trailer Backup Lamps Relay	—	• P3 Backup Alarm (8S3) • X88 Trailer Connector (Z82)
—	—	KR63L Trailer Stop/Turn Signal Lamp Relay - Left	—	• F65UA • X88 Trailer Connector (Z82)
—	—	KR63R Trailer Stop/Turn Signal Lamp Relay - Right	—	• X88 Trailer Connector (Z82)
—	—	KR113 Child Security Lock Disable Relay	—	• A23LR Door Latch Assembly - Left Rear • A23P Door Latch Assembly - Passenger • A23RR Door Latch Assembly - Right Rear
Note: Items listed below are diagnostic testing points.				
TP19	—	TP19	—	• Not Used
Note: Items listed below are Door Lock/Indicator system diagnostic testing points.				
TP18	CKT 3271	TP18	—	• KR113 Child Security Lock Disable Relay
Note: Items listed below are Trailer Connector/Provision system diagnostic testing points.				
TP24	CKT 1619	TP24	—	• KR63R Trailer Stop/Turn Signal Lamp Relay - Right
TP26	CKT 1624	TP26	—	• KR61 Trailer Backup Lamps Relay

X50A Fuse Block - Underhood Bottom View



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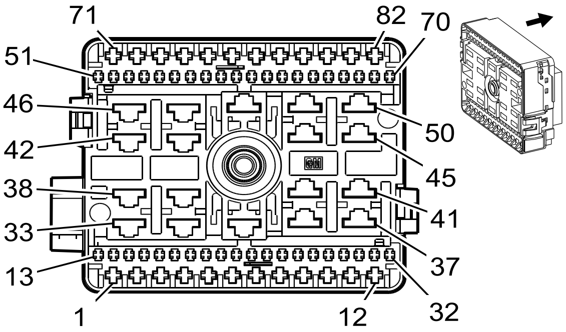
X50A Fuse Block - Underhood X1



2174006

Connector Part Information

Harness Type: Forward Lamp
OEM Connector: 13262028
Service Connector: —
Description: 82-Way F 1.5, 2.8 DSQ, 800 Metri-Pack Series (BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13575490	J-35616-35 (VT)	J-38125-36	Not Available	Not Available	Not Available	Not Available
II	13575718	J-35616-44 (YE)	J-38125-558	12110127	Delphi 19	F	G
III	13575774	J-35616-14 (GN)	J-38125-557	Not Available	Not Available	Not Available	Not Available
IV	13575780	J-35616-35 (VT)	J-38125-36	Not Available	Not Available	Not Available	Not Available
V	13575781	J-35616-35 (VT)	J-38125-36	Not Available	Not Available	Not Available	Not Available
VI	13579978	J-35616-44 (YE)	J-38125-558	12065915	Delphi 5	A	D
VII	19366953	J-35616-44 (YE)	J-38125-558	12092445	Delphi 18	G	G
VIII	19366953	J-35616-44 (YE)	J-38125-558	12092445	Delphi 18	Not Available	Not Available
IX	19368323	J-35616-14 (GN)	J-38125-557	Not Available	Not Available	Not Available	Not Available

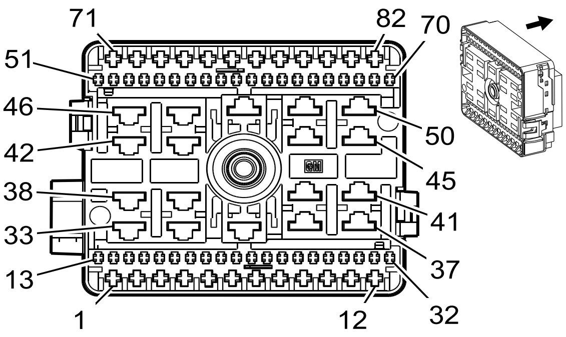
X50A Fuse Block - Underhood X1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	1 1	VT/BN VT/BN	7258 7258	Rear Differential Lock Actuator Supply Voltage Rear Differential Lock Actuator Supply Voltage	IV III	LGZ LWN
2	1	VT/WH	7256	Front Differential Lock Actuator Supply Voltage	IV	—
3 - 7	—	—	—	Not Occupied	—	—
8	1.5	BN	2109	Trailer Park Lamp Control	V	—
9 - 10	—	—	—	Not Occupied	—	—
11	0.75	BN/GY	29	Horn Control	IV	—
12	—	—	—	Not Occupied	—	—

X50A Fuse Block - Underhood X1 (cont'd)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
13	0.75	WH	311	Right Headlamp High Beam Control	III	—
14	0.5	WH	711	Left Headlamp High Beam Control	III	—
15 - 29	—	—	—	Not Occupied	—	—
30	0.75	GY/VT	228	Windshield Washer Pump Control	III	—
31	0.75	BN/VT	2234	Front Fog Lamp Control	III	—
32 - 34	—	—	—	Not Occupied	—	—
35	6	RD/GY	4840	Battery Positive Voltage	VIII	—
36 - 37	—	—	—	Not Occupied	—	—
38	4	BN/L-BU	104	Glow Plug Control	VII	—
39 - 40	—	—	—	Not Occupied	—	—
41	1.5	L-GN/L-BU	3889	DEF Power Module Relay Control	VI	—
42 - 48	—	—	—	Not Occupied	—	—
49	2.5	L-BU/L-GN	7071	Heater Fuel Control	II	—
50	2.5 4	BN/VT L-BU	1470 3921	Brake Booster Pump Motor Control DEF Heater Supply 1	II VII	LGZ LWN
51	—	—	—	Not Occupied	—	—
52	0.5	L-BU/WH	7120	Rear Axle Differential Lock Control	III	—
53 - 67	—	—	—	Not Occupied	—	—
68	1.5	L-GN/L-BU	3889	DEF Power Module Relay Control	IX	—
69	0.5	WH/VT	4333	Aero Shutter Actuator Control	III	—
70	—	—	—	Not Occupied	—	—
71	0.75	BK	1150	Ground	IV	—
72	1.5	WH	92	Windshield Wiper Motor High Speed Control	V	—
73	1.5	YE/BN	95	Windshield Wiper Motor Low Speed Control	V	—
74	1.5	BK	3150	Ground	V	—
75	0.35	VT/GY	1054	Stop Lamp Control	I	—
76 - 79	—	—	—	Not Occupied	—	—
80	0.75	WH/VT	1430	Exterior Courtesy Lamp Control	IV	—
81 - 82	—	—	—	Not Occupied	—	—

X50A Fuse Block - Underhood X1 (-ULV)



2174006

Connector Part Information

Harness Type: Forward Lamp
OEM Connector: 13262028
Service Connector: —
Description: 82-Way F 1.5, 2.8 DSQ, 800 Metri-Pack Series (BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13575490	J-35616-35 (VT)	J-38125-36	Not Available	Not Available	Not Available	Not Available
II	13575718	J-35616-44 (YE)	J-38125-558	12110127	Delphi 19	F	G
III	13575774	J-35616-14 (GN)	J-38125-557	Not Available	Not Available	Not Available	Not Available
IV	13575780	J-35616-35 (VT)	J-38125-36	Not Available	Not Available	Not Available	Not Available
V	13575781	J-35616-35 (VT)	J-38125-36	Not Available	Not Available	Not Available	Not Available
VI	13579978	J-35616-44 (YE)	J-38125-558	12065915	Delphi 5	A	D
VII	19366953	J-35616-44 (YE)	J-38125-558	12092445	Delphi 18	G	G
VIII	19366953	J-35616-44 (YE)	J-38125-558	12092445	Delphi 18	Not Available	Not Available
IX	19368323	J-35616-14 (GN)	J-38125-557	Not Available	Not Available	Not Available	Not Available

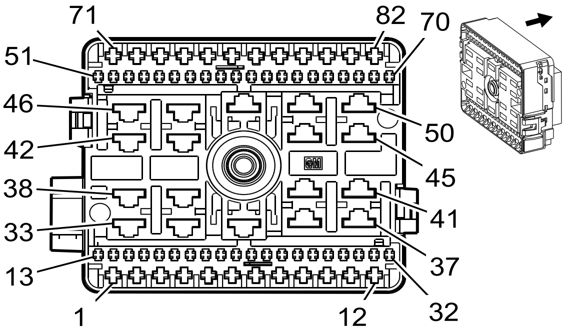
X50A Fuse Block - Underhood X1 (-ULV)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	1	VT/BN	7258	Rear Differential Lock Actuator Supply Voltage	IV	LGZ
2	1	VT/WH	7256	Front Differential Lock Actuator Supply Voltage	IV	—
3 - 7	—	—	—	Not Occupied	—	—
8	1.5	BN	2109	Trailer Park Lamp Control	V	—
9 - 10	—	—	—	Not Occupied	—	—
11	0.75	BN/GY	29	Horn Control	IV	—
12	—	—	—	Not Occupied	—	—

X50A Fuse Block - Underhood X1 (-ULV) (cont'd)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
13	0.75	WH	311	Right Headlamp High Beam Control	III	—
14	0.5	WH	711	Left Headlamp High Beam Control	III	—
15 - 29	—	—	—	Not Occupied	—	—
30	0.75	GY/VT	228	Windshield Washer Pump Control	III	—
31	0.75	BN/VT	2234	Front Fog Lamp Control	III	—
32 - 34	—	—	—	Not Occupied	—	—
35	6	RD/GY	4840	Battery Positive Voltage	VIII	—
36 - 37	—	—	—	Not Occupied	—	—
38	4	BN/BU	104	Glow Plug Control	VII	—
39 - 40	—	—	—	Not Occupied	—	—
41	1.5	GN/BU	3889	DEF Power Module Relay Control	VI	—
42 - 48	—	—	—	Not Occupied	—	—
49	2.5	BU/GN	7071	Heater Fuel Control	II	—
50 - 51	—	—	—	Not Occupied	—	—
52	0.5	BU/WH	7120	Rear Axle Differential Lock Control	III	—
53 - 67	—	—	—	Not Occupied	—	—
68	1.5	GN/BU	3889	DEF Power Module Relay Control	IX	—
69	0.5	WH/VT	4333	Aero Shutter Actuator Control	III	—
70	—	—	—	Not Occupied	—	—
71	0.75	BK	1150	Ground	IV	—
72	1.5	WH	92	Windshield Wiper Motor High Speed Control	V	—
73	1.5	YE/BN	95	Windshield Wiper Motor Low Speed Control	V	—
74	1.5	BK	3150	Ground	V	—
75	0.35	VT/GY	1054	Stop Lamp Control	I	—
76 - 79	—	—	—	Not Occupied	—	—
80	0.75	WH/VT	1430	Exterior Courtesy Lamp Control	IV	—
81 - 82	—	—	—	Not Occupied	—	—

X50A Fuse Block - Underhood X1 (ULV+LGZ)



2174006

Connector Part Information

Harness Type: Forward Lamp
OEM Connector: 13262028
Service Connector: —
Description: 82-Way F 1.5, 2.8 DSQ, 800 Metri-Pack Series (BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13575490	J-35616-35 (VT)	J-38125-36	Not Available	Not Available	Not Available	Not Available
II	13575718	J-35616-44 (YE)	J-38125-558	12110127	Delphi 19	F	G
III	13575774	J-35616-14 (GN)	J-38125-557	Not Available	Not Available	Not Available	Not Available
IV	13575780	J-35616-35 (VT)	J-38125-36	Not Available	Not Available	Not Available	Not Available
V	13575781	J-35616-35 (VT)	J-38125-36	Not Available	Not Available	Not Available	Not Available

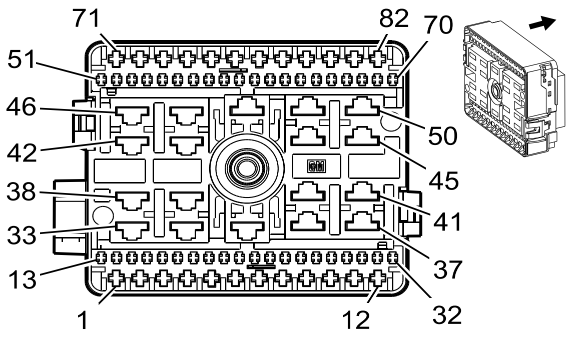
X50A Fuse Block - Underhood X1 (ULV+LGZ)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	1	VT/BN	7258	Rear Differential Lock Actuator Supply Voltage	III	—
2	1	VT/WH	7256	Front Differential Lock Actuator Supply Voltage	IV	—
3 - 7	—	—	—	Not Occupied	—	—
8	1.5	BN	2109	Trailer Park Lamp Control	V	—
9 - 10	—	—	—	Not Occupied	—	—
11	0.75	BN/GY	29	Horn Control	IV	—
12	—	—	—	Not Occupied	—	—
13	0.75	WH	311	Right Headlamp High Beam Control	III	—
14	0.5	WH	711	Left Headlamp High Beam Control	III	—
15 - 29	—	—	—	Not Occupied	—	—
30	0.75	GY/VT	228	Windshield Washer Pump Control	III	—
31	0.75	BN/VT	2234	Front Fog Lamp Control	III	—
32 - 49	—	—	—	Not Occupied	—	—
50	2.5	BN/VT	1470	Brake Booster Pump Motor Control	II	—

X50A Fuse Block - Underhood X1 (ULV+LGZ) (cont'd)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
51	—	—	—	Not Occupied	—	—
52	0.5	BU/WH	7120	Rear Axle Differential Lock Control	III	—
53 - 70	—	—	—	Not Occupied	—	—
71	0.75	BK	1150	Ground	IV	—
72	1.5	WH	92	Windshield Wiper Motor High Speed Control	V	—
73	1.5	YE/BN	95	Windshield Wiper Motor Low Speed Control	V	—
74	1.5	BK	3150	Ground	V	—
75	0.35	VT/GY	1054	Stop Lamp Control	I	—
76 - 79	—	—	—	Not Occupied	—	—
80	0.75	WH/VT	1430	Exterior Courtesy Lamp Control	IV	—
81 - 82	—	—	—	Not Occupied	—	—

X50A Fuse Block - Underhood X1 (ULV+LWN)



2174006

Connector Part Information

Harness Type: Forward Lamp
OEM Connector: 13262028
Service Connector: —
Description: 82-Way F 1.5, 2.8 DSQ, 800 Metri-Pack Series (BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13575490	J-35616-35 (VT)	J-38125-36	Not Available	Not Available	Not Available	Not Available
II	13575718	J-35616-44 (YE)	J-38125-558	12110127	Delphi 19	F	G
III	13575774	J-35616-14 (GN)	J-38125-557	Not Available	Not Available	Not Available	Not Available
IV	13575780	J-35616-35 (VT)	J-38125-36	Not Available	Not Available	Not Available	Not Available
V	13575781	J-35616-35 (VT)	J-38125-36	Not Available	Not Available	Not Available	Not Available
VI	13579978	J-35616-44 (YE)	J-38125-558	12065915	Delphi 5	A	D
VII	19366953	J-35616-44 (YE)	J-38125-558	12092445	Delphi 18	G	G
VIII	19368323	J-35616-14 (GN)	J-38125-557	Not Available	Not Available	Not Available	Not Available

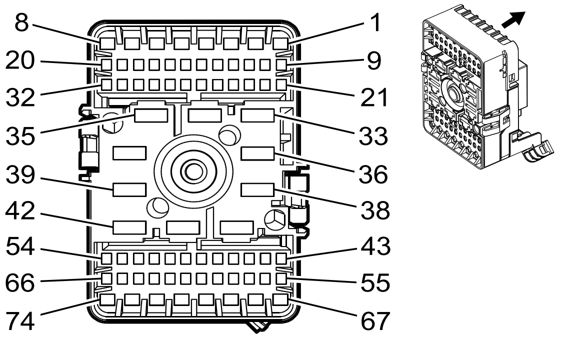
X50A Fuse Block - Underhood X1 (ULV+LWN)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	1	VT/BN	7258	Rear Differential Lock Actuator Supply Voltage	IV	—
2	1	VT/WH	7256	Front Differential Lock Actuator Supply Voltage	IV	—
3 - 7	—	—	—	Not Occupied	—	—
8	1.5	BN	2109	Trailer Park Lamp Control	V	—
9 - 10	—	—	—	Not Occupied	—	—
11	0.75	BN/GY	29	Horn Control	IV	—
12	—	—	—	Not Occupied	—	—
13	0.75	WH	311	Right Headlamp High Beam Control	III	—
14	0.5	WH	711	Left Headlamp High Beam Control	III	—

X50A Fuse Block - Underhood X1 (ULV+LWN) (cont'd)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
15 - 29	—	—	—	Not Occupied	—	—
30	0.75	GY/VT	228	Windshield Washer Pump Control	III	—
31	0.75	BN/VT	2234	Front Fog Lamp Control	III	—
32 - 37	—	—	—	Not Occupied	—	—
38	4	BN/BU	104	Glow Plug Control	VII	—
39 - 40	—	—	—	Not Occupied	—	—
41	1.5	GN/BU	3889	DEF Power Module Relay Control	VI	—
42 - 48	—	—	—	Not Occupied	—	—
49	2.5	BU/GN	7071	Heater Fuel Control	II	—
50	4	BU	3921	DEF Heater Supply 1	VII	—
51	—	—	—	Not Occupied	—	—
52	0.5	BU/WH	7120	Rear Axle Differential Lock Control	III	—
53 - 67	—	—	—	Not Occupied	—	—
68	1.5	GN/BU	3889	DEF Power Module Relay Control	VIII	—
69 - 70	—	—	—	Not Occupied	—	—
71	0.75	BK	1150	Ground	IV	—
72	1.5	WH	92	Windshield Wiper Motor High Speed Control	V	—
73	1.5	YE/BN	95	Windshield Wiper Motor Low Speed Control	V	—
74	1.5	BK	3150	Ground	V	—
75	0.35	VT/GY	1054	Stop Lamp Control	I	—
76 - 79	—	—	—	Not Occupied	—	—
80	0.75	WH/VT	1430	Exterior Courtesy Lamp Control	IV	—
81 - 82	—	—	—	Not Occupied	—	—

X50A Fuse Block - Underhood X2



2174004

Connector Part Information

Harness Type: Body
OEM Connector: 13732284
Service Connector: 13576544
Description: 74-Way F 1.5, 2.8 DSQ, 800 Metri-Pack Series (BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13575541	J-35616-35 (VT)	J-38125-36	Not Available	Not Available	Not Available	Not Available
II	13575718	J-35616-44 (YE)	J-38125-558	12092445	Delphi 18	Not Available	Not Available
III	13575718	J-35616-44 (YE)	J-38125-558	12110127	Delphi 19	F	G
IV	13575774	J-35616-14 (GN)	J-38125-557	Not Available	Not Available	Not Available	Not Available
V	13575781	J-35616-35 (VT)	J-38125-36	Not Available	Not Available	Not Available	Not Available
VI	19366953	J-35616-44 (YE)	J-38125-558	12092445	Delphi 18	G	G
VII	19368323	J-35616-14 (GN)	J-38125-557	Not Available	Not Available	Not Available	Not Available

X50A Fuse Block - Underhood X2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	1	WH/BK	7254	Front Differential Lock Actuator Low Control	I	—
2	1.5	BK	3950	Ground	V	—
3	1	GY/BK	7253	Rear Differential Lock Actuator Low Control	I	—
4	1.5 0.75	GY GY	295 295	Door Lock Actuator Lock Control Door Lock Actuator Lock Control	V I	CREW CAB EXTENDED CAB
5	1.5	WH/L-BU	3266	Child Security Lock Motor Lock Control	V	—
6	2.5	GY	120	Fuel Pump Control	V	—
7 - 10	—	—	—	Not Occupied	—	—
11	0.5	L-GN/BK	7118	Front Axle Differential Lock Low Reference	IV	—
12	1.5	GY/L-GN	3271	Door Lock Control 2	VII	—

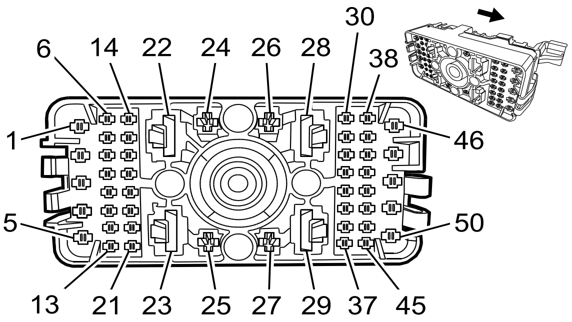
X50A Fuse Block - Underhood X2 (cont'd)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
13	0.5	VT/YE	3267	Child Security Lock Relay Control	IV	—
14	0.75	VT/BK	2139	Run/Crank Ignition 1 Voltage	IV	—
15 - 16	—	—	—	Not Occupied	—	—
17	0.5	L-GN/VT	5199	Run/Crank Relay Coil Control	IV	—
18	—	—	—	Not Occupied	—	—
19	0.5	BN/WH	1317	Fog Lamp Relay Control	IV	—
20	0.5	VT/BK	7121	Rear Axle Differential Lock Low Reference	IV	—
21	—	—	—	Not Occupied	—	—
22	0.5	GY	91	Windshield Wiper Motor Relay Coil Control	IV	—
23	—	—	—	Not Occupied	—	—
24	0.5	L-BU	45	Park Lamp Relay Control	IV	—
25	0.5	BN/WH	28	Horn Relay Control	IV	—
26 - 29	—	—	—	Not Occupied	—	—
30	0.75	L-GN	1619	Right Rear Trailer Stop/Turn Lamp Control	IV	—
31 - 32	—	—	—	Not Occupied	—	—
33	2.5	RD/VT	542	Battery Positive Voltage	III	—
34	2.5	RD/YE	442	Battery Positive Voltage	III	—
35	—	—	—	Not Occupied	—	—
36	4	OG	742	Battery Positive Voltage	VI	—
37 - 38	—	—	—	Not Occupied	—	—
39	2.5	BN/VT	293	Rear Defog Element Control	III	—
40	2.5 2.5	RD/GY RD/GY	1342 1342	Battery Positive Voltage Battery Positive Voltage	III II	NQ6 NQ7
41	4	RD/GY	1042	Battery Positive Voltage	VI	—
42	2.5	RD/L-GN	242	Battery Positive Voltage	III	—
43	0.5	BK	3150	Ground	IV	—
44	—	—	—	Not Occupied	—	—
45	0.5	WH/VT	860	Front Windshield Wiper Switch High Signal	IV	—
46	0.5	VT/WH	5065	Stop Lamp Relay Coil Control	IV	—
47	0.5	BN/WH	1429	Standing Lamp Relay Control	IV	—
48	0.5	L-BU/BN	38	Backup Lamp Relay Control	IV	—
49	0.5	L-BU/WH	5186	Left Trailer Turn Signal Lamp Control	IV	—
50	—	—	—	Not Occupied	—	—
51	0.75	YE	1618	Left Rear Trailer Stop/Turn Lamp Control	IV	—
52	0.75	GY	1624	Trailer Backup Lamp Control	IV	—
53 - 55	—	—	—	Not Occupied	—	—
56	0.75	RD/L-GN	5140	Battery Positive Voltage	IV	—
57	—	—	—	Not Occupied	—	—
58	0.5	BN/VT	1969	Headlamp High Beam Relay Control	IV	—
59	0.5	YE/GY	5187	Right Trailer Turn Signal Lamp Control	IV	—
60	0.5	BN/GY	2268	Windshield Washer Relay Control	IV	—
61	0.5	BN/VT	193	Rear Defog Relay Control	IV	—
62	0.5	BN/YE	2267	Mirror Heating Element Control	IV	—
63 - 67	—	—	—	Not Occupied	—	—
68	0.75	RD/L-GN	6140	Battery Positive Voltage	I	—

X50A Fuse Block - Underhood X2 (cont'd)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
69	2.5	RD/YE	2340	Battery Positive Voltage	V	—
70	2.5	RD/VT	1940	Battery Positive Voltage	V	—
71	2.5	RD/VT	1940	Battery Positive Voltage	V	—
72	0.75	RD/BN	440	Battery Positive Voltage	I	—
73	0.5	RD/L-GN	2440	Battery Positive Voltage	I	—
74	0.5	RD/BN	5940	Battery Positive Voltage	I	—

X50A Fuse Block - Underhood X3



2220560

Connector Part Information

Harness Type: Engine
OEM Connector: 13732282
Service Connector: 13505902
Description: 50-Way F 1.5, 2.8 DSQ, 800 Metri-Pack Series (BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13327116	J-35616-35 (VT)	J-38125-36	Not Available	Not Available	Not Available	Not Available
II	13575541	J-35616-35 (VT)	J-38125-36	Not Available	Not Available	Not Available	Not Available
III	13575774	J-35616-14 (GN)	J-38125-557	Not Available	Not Available	Not Available	Not Available
IV	13575781	J-35616-35 (VT)	J-38125-36	Not Available	Not Available	Not Available	Not Available
V	19368323	J-35616-14 (GN)	J-38125-557	Not Available	Not Available	Not Available	Not Available

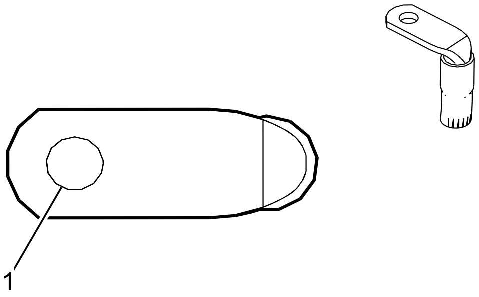
X50A Fuse Block - Underhood X3

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.75	VT/L-BU	5290	Powertrain Main Relay Fused Supply 1	I	—
	1	VT/L-BU	5290	Powertrain Main Relay Fused Supply 1	I	—
	2	VT/L-BU	5290	Powertrain Main Relay Fused Supply 1	IV	—
	2.5	VT/L-BU	5290	Powertrain Main Relay Fused Supply 1	IV	—
2	0.75	VT/L-BU	5291	Powertrain Main Relay Fused Supply 2	II	—
3	0.75	VT/L-BU	5292	Powertrain Main Relay Fused Supply 3	II	—
	1.5	VT/L-BU	5292	Powertrain Main Relay Fused Supply 3	IV	—
4	0.5	VT/BK	2139	Run/Crank Ignition 1 Voltage	II	—
5	2	YE	6	Starter Solenoid Crank Ignition Voltage	IV	—
	2.5	YE	6	Starter Solenoid Crank Ignition Voltage	IV	—
6	0.5	VT/L-BU	5293	Powertrain Main Relay Fused Supply 4	III	—
7	0.5	VT/L-BU	5294	Powertrain Main Relay Fused Supply 5	III	—
	0.75	VT/L-BU	5294	Powertrain Main Relay Fused Supply 5	III	—
8	—	—	—	Not Occupied	—	—
9	0.5	L-GN/GY	465	Fuel Pump Primary Relay Control	III	—

X50A Fuse Block - Underhood X3 (cont'd)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
10	—	—	—	Not Occupied	—	—
11	0.5 0.5	YE/BK VT/GY	625 6386	Starter Enable Relay Control Starter Enable Relay (PPEI 3) Control	III III	— —
12	0.5	WH/BK	2366	Cooling Fan Control Relay Speed Signal	III	—
13	0.75	BK/WH	151	Signal Ground	III	—
14	—	—	—	Not Occupied	—	—
15	0.5 0.5	L-GN/L-BU BN	3889 6305	DEF Power Module Relay Control Brake Vacuum Switch Signal	III III	— —
16	—	—	—	Not Occupied	—	—
17	0.5	YE	5991	Powertrain Relay Coil Control	III	—
18 - 19	—	—	—	Not Occupied	—	—
20	0.75 1	VT/GY VT/GY	139 139	Run/Crank Ignition 1 Voltage Run/Crank Ignition 1 Voltage	III III	— —
21	0.5	BK	1450	Ground	III	—
22 - 26	—	—	—	Not Occupied	—	—
27	0.5	RD/WH	140	Battery Positive Voltage	II	—
28 - 29	—	—	—	Not Occupied	—	—
30	0.5 0.5	WH VT/L-BU	2368 5290	Cooling Fan Control Signal Powertrain Main Relay Fused Supply 1	III III	— —
31 - 32	—	—	—	Not Occupied	—	—
33	0.5	VT/L-GN	4320	Selective Catalytic Reduction Power Module Wake-Up Signal	III	—
34	0.5	WH/GY	459	A/C Compressor Clutch Relay Control	III	—
35	1.5	VT/L-BU	3674	NOx Sensor 1 Control	V	—
36	—	—	—	Not Occupied	—	—
37	0.75	RD/L-GN	1840	Battery Positive Voltage	III	—
38 - 39	—	—	—	Not Occupied	—	—
40	0.5	L-BU	3017	Fuel Heater Relay Control 1	III	—
41 - 45	—	—	—	Not Occupied	—	—
46	0.5	L-BU/BK	7116	Front Axle Differential Lock Control	II	—
47 - 48	—	—	—	Not Occupied	—	—
49	0.5	L-GN/L-BU	3889	DEF Power Module Relay Control	II	—
50	0.75	BN/L-GN	59	A/C Compressor Clutch Control	II	—

X50A Fuse Block - Underhood X4



2772389

Connector Part Information

Harness Type: Generator Cable
OEM Connector: 13644223
Service Connector: Service by Cable Assembly — See Part Catalog
Description: 1-Way Ring Terminal

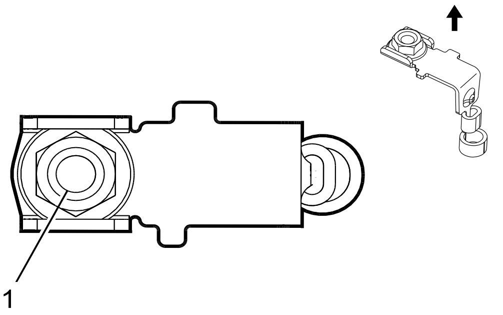
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	No Tool Required	No Tool Required	Not Required	Not Required	Not Required	Not Required

X50A Fuse Block - Underhood X4

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	—	—	—	Not Occupied	—	—

X50A Fuse Block - Underhood X5



2173547

Connector Part Information

Harness Type: Generator Cable
OEM Connector: 1193803
Service Connector: Service by Cable Assembly — See Part Catalog
Description: 1-Way Ring Terminal

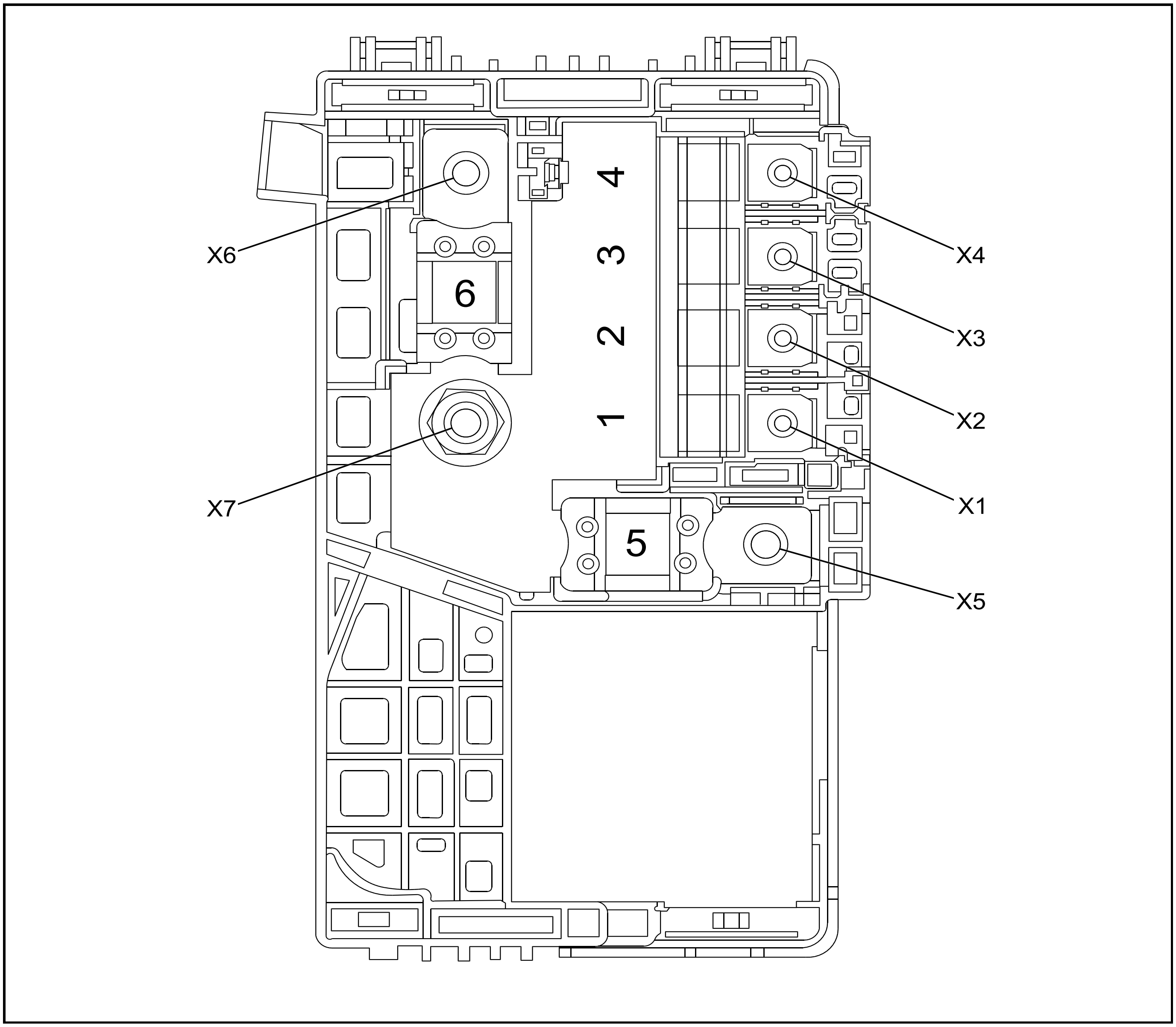
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	No Tool Required	No Tool Required	Not Required	Not Required	Not Required	Not Required

X50A Fuse Block - Underhood X5

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	25	RD/YE	2	Battery Positive Voltage	I	—

X50D Fuse Block - Battery Top View

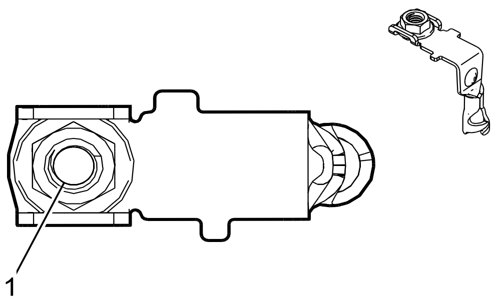


4790898

Usage Table

No.	Device Label Name	Device Assigned Name	Rating	Description
Fuses				
1	—	F1UB	100A	• K43 Power Steering Control Module
2	—	F2UB	100A	• X51A Fuse Block – Instrument Panel
3	—	F3UB	100A	• X51A Fuse Block – Instrument Panel
4	—	F4UB	100A	• K22 Cooling Fan Control Module
5	—	F5UB	250A	• X50A Fuse Block – Underhood
6	—	F6UB	300A	• M64 Starter Motor

X50D Fuse Block - Battery X1



2772379

Connector Part Information

Harness Type: Battery Cable
OEM Connector: 13371977
Service Connector: Service by Cable Assembly — See Part Catalog
Description: 1-Way Ring Terminal

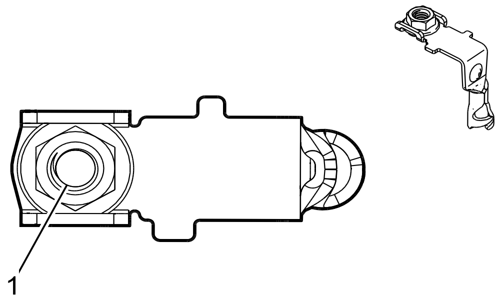
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	No Tool Required	No Tool Required	Not Required	Not Required	Not Required	Not Required

X50D Fuse Block - Battery X1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	10	RD/VT	842	Battery Positive Voltage	I	—

X50D Fuse Block - Battery X2



Connector Part Information

Harness Type: Body
OEM Connector: 13869259
Service Connector: Service by Cable Assembly — See Part Catalog
Description: 1-Way Ring Terminal

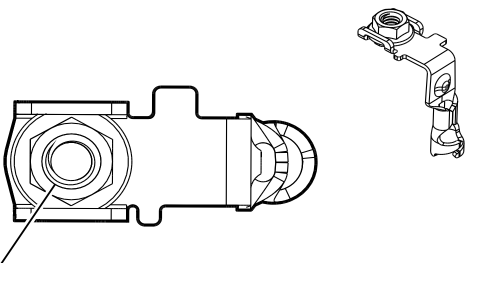
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	No Tool Required	No Tool Required	Not Required	Not Required	Not Required	Not Required

X50D Fuse Block - Battery X2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	10	RD/L-BU	42	Battery Positive Voltage	I	—

X50D Fuse Block - Battery X3



2759566

Connector Part Information

Harness Type: Body
OEM Connector: 13869260
Service Connector: Service by Cable Assembly — See Part Catalog
Description: 1-Way Ring Terminal

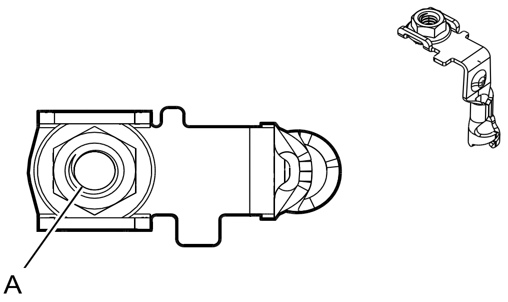
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	No Tool Required	No Tool Required	Not Required	Not Required	Not Required	Not Required

X50D Fuse Block - Battery X3

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	10	RD/VT	842	Battery Positive Voltage	I	—

X50D Fuse Block - Battery X4 (LGZ)



Connector Part Information

Harness Type: Forward Lamp
OEM Connector: 13869288
Service Connector: Service by Cable Assembly — See Part Catalog
Description: 1-Way Ring Terminal

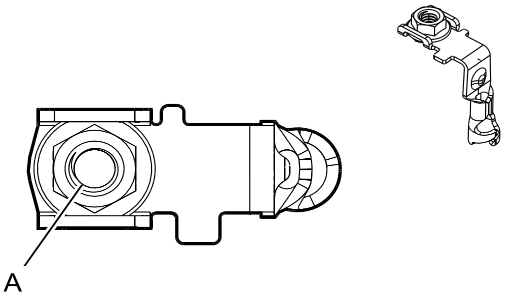
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	No Tool Required	No Tool Required	Not Required	Not Required	Not Required	Not Required

X50D Fuse Block - Battery X4 (LGZ)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	10	RD/GY	4840	Battery Positive Voltage	I	—

X50D Fuse Block - Battery X4 (Crew Cab+LWN)



2759576

Connector Part Information

Harness Type: Body
OEM Connector: 13869288
Service Connector: Service by Cable Assembly — See Part Catalog
Description: 1-Way Ring Terminal

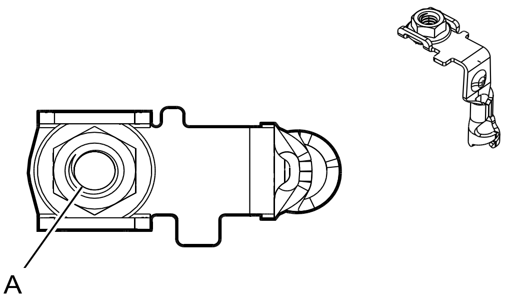
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	No Tool Required	No Tool Required	Not Required	Not Required	Not Required	Not Required

X50D Fuse Block - Battery X4 (Crew Cab+LWN)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	10	RD/GY	4840	Battery Positive Voltage	I	—

X50D Fuse Block - Battery X4 (Extended Cab+LWN)



2759576

Connector Part Information

Harness Type: Body
OEM Connector: 13869288
Service Connector: Service by Cable Assembly — See Part Catalog
Description: 1-Way Ring Terminal

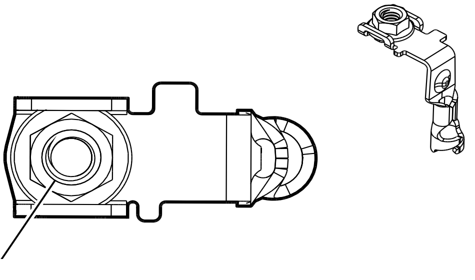
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	No Tool Required	No Tool Required	Not Required	Not Required	Not Required	Not Required

X50D Fuse Block - Battery X4 (Extended Cab+LWN)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	10	RD/GY	4840	Battery Positive Voltage	I	—

X50D Fuse Block - Battery X4 (LWN)



2759566

Connector Part Information

Harness Type: Body
OEM Connector: 13869260
Service Connector: Service by Cable Assembly — See Part Catalog
Description: 1-Way Ring Terminal

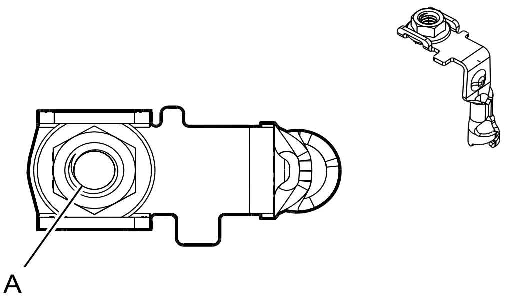
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	No Tool Required	No Tool Required	Not Required	Not Required	Not Required	Not Required

X50D Fuse Block - Battery X4 (LWN)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	10	RD/VT	842	Battery Positive Voltage	I	—

X50D Fuse Block - Battery X4 (-ULV)



2759576

Connector Part Information

Harness Type: Forward Lamp
OEM Connector: 13869288
Service Connector: Service by Cable Assembly — See Part Catalog
Description: 1-Way Ring Terminal

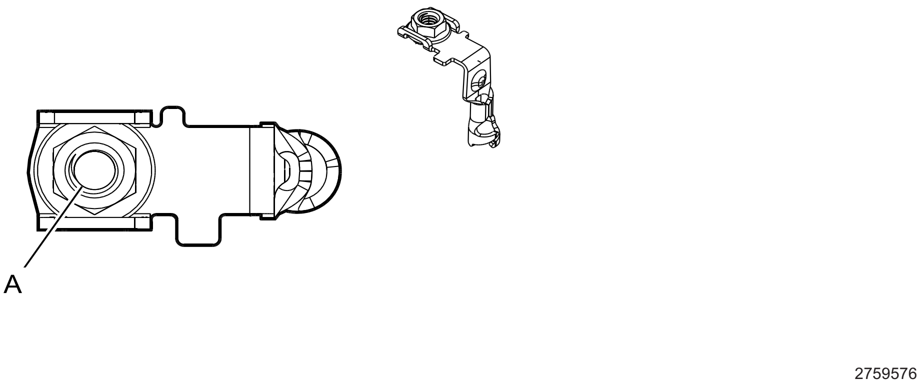
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	No Tool Required	No Tool Required	Not Required	Not Required	Not Required	Not Required

X50D Fuse Block - Battery X4 (-ULV)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	10	RD/GY	4840	Battery Positive Voltage	I	—

X50D Fuse Block - Battery X4 (ULV+LGZ)



Connector Part Information

Harness Type: Forward Lamp
OEM Connector: 13869288
Service Connector: Service by Cable Assembly — See Part Catalog
Description: 1-Way Ring Terminal

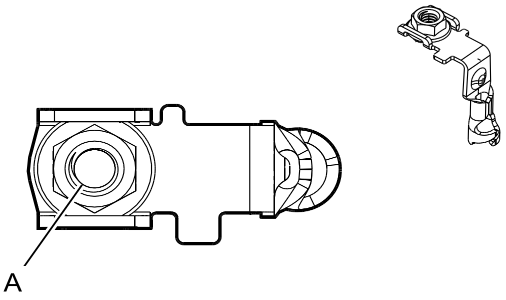
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	No Tool Required	No Tool Required	Not Required	Not Required	Not Required	Not Required

X50D Fuse Block - Battery X4 (ULV+LGZ)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	10	RD/GY	4840	Battery Positive Voltage	I	—

X50D Fuse Block - Battery X4 (ULV+LWN)



2759576

Connector Part Information

Harness Type: Forward Lamp
OEM Connector: 13869288
Service Connector: Service by Cable Assembly — See Part Catalog
Description: 1-Way Ring Terminal

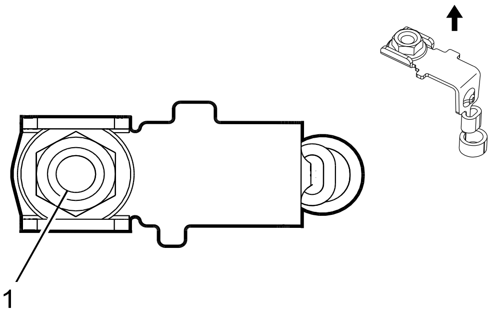
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	No Tool Required	No Tool Required	Not Required	Not Required	Not Required	Not Required

X50D Fuse Block - Battery X4 (ULV+LWN)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	10	RD/GY	4840	Battery Positive Voltage	I	—

X50D Fuse Block - Battery X5



2173547

Connector Part Information

Harness Type: Battery Cable
OEM Connector: 1193803
Service Connector: Service by Cable Assembly — See Part Catalog
Description: 1-Way Ring Terminal

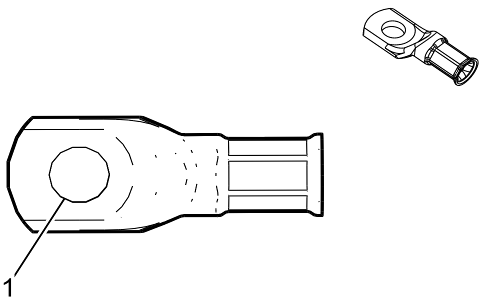
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	No Tool Required	No Tool Required	Not Required	Not Required	Not Required	Not Required

X50D Fuse Block - Battery X5

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	25	RD/YE	2	Battery Positive Voltage	I	—

X50D Fuse Block - Battery X6 (LCV)



2772406

Connector Part Information

Harness Type: Battery Cable
OEM Connector: 10730988
Service Connector: Service by Cable Assembly — See Part Catalog
Description: 1-Way Ring Terminal

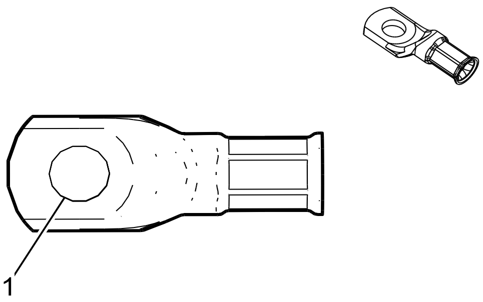
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	No Tool Required	No Tool Required	Not Required	Not Required	Not Required	Not Required

X50D Fuse Block - Battery X6 (LCV)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	35	RD/YE	2	Battery Positive Voltage	I	—

X50D Fuse Block - Battery X6 (LGZ)



2772406

Connector Part Information

Harness Type: Starter Cable
OEM Connector: 10730988
Service Connector: Service by Cable Assembly — See Part Catalog
Description: 1-Way Ring Terminal

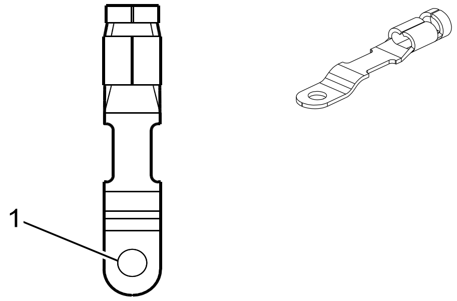
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	No Tool Required	No Tool Required	Not Required	Not Required	Not Required	Not Required

X50D Fuse Block - Battery X6 (LGZ)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	35	RD/YE	2	Battery Positive Voltage	I	—

X50D Fuse Block - Battery X6 (LWN)



Connector Part Information

Harness Type: Starter Cable
OEM Connector: AXZ47063
Service Connector: Service by Cable Assembly — See Part Catalog
Description: 1-Way Ring Terminal

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	No Tool Required	No Tool Required	Not Required	Not Required	Not Required	Not Required

X50D Fuse Block - Battery X6 (LWN)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	50	RD/YE	2	Battery Positive Voltage	I	—

X50D Fuse Block - Battery X7

—

Connector Part Information

Harness Type: Battery Cable Positive
OEM Connector: 13644223
Service Connector: Service by Harness - See Part Catalog
Description: 6-Way F 0.64 Kaizen Series (BK)

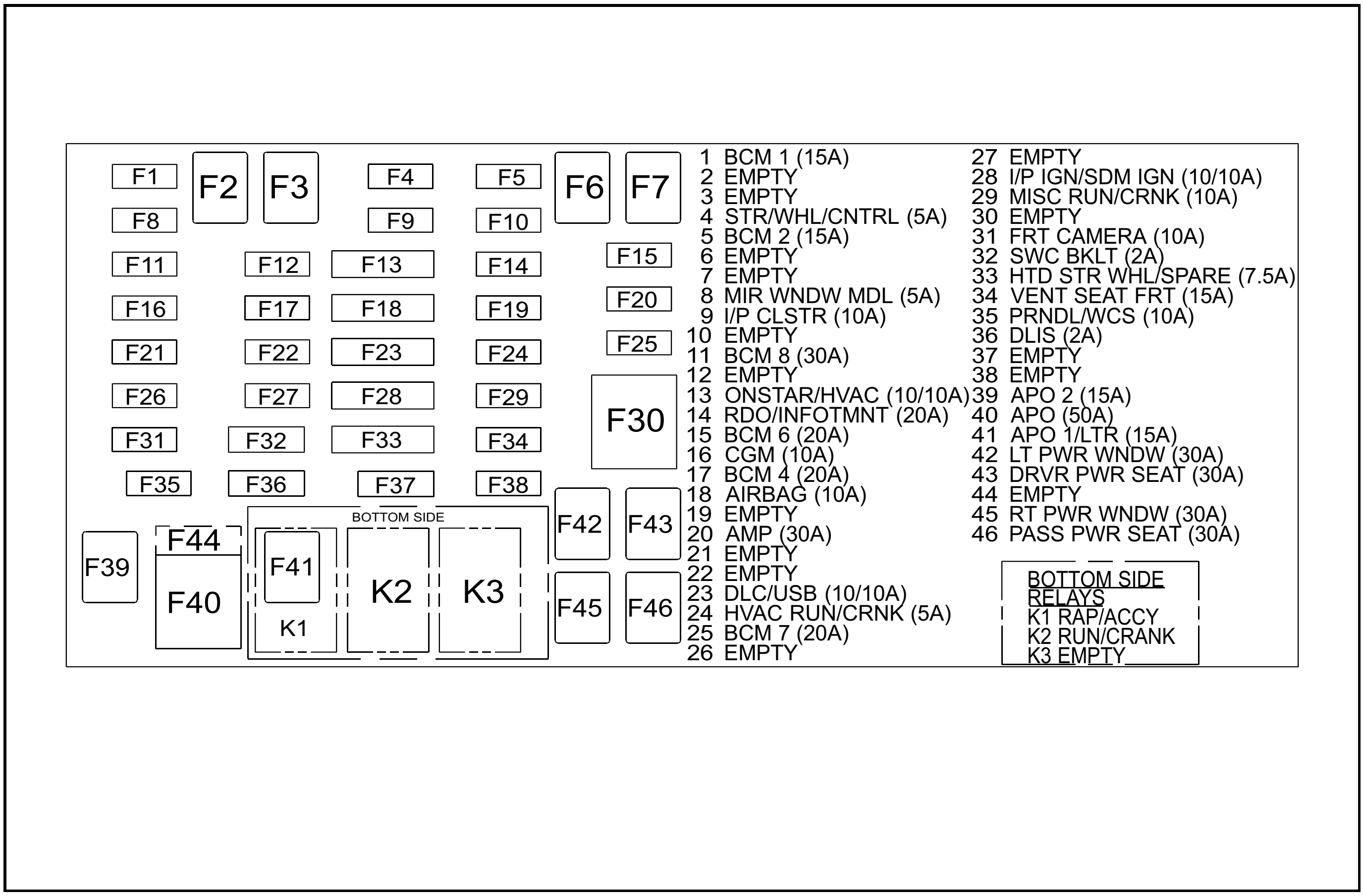
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	Not Available	No Tool Required	Not Required	Not Required	Not Required	Not Required

X50D Fuse Block - Battery X7

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	—	RD	1	Unfused Battery Positive Voltage	I	—

X51A Fuse Block - Instrument Panel Label


F1
F2
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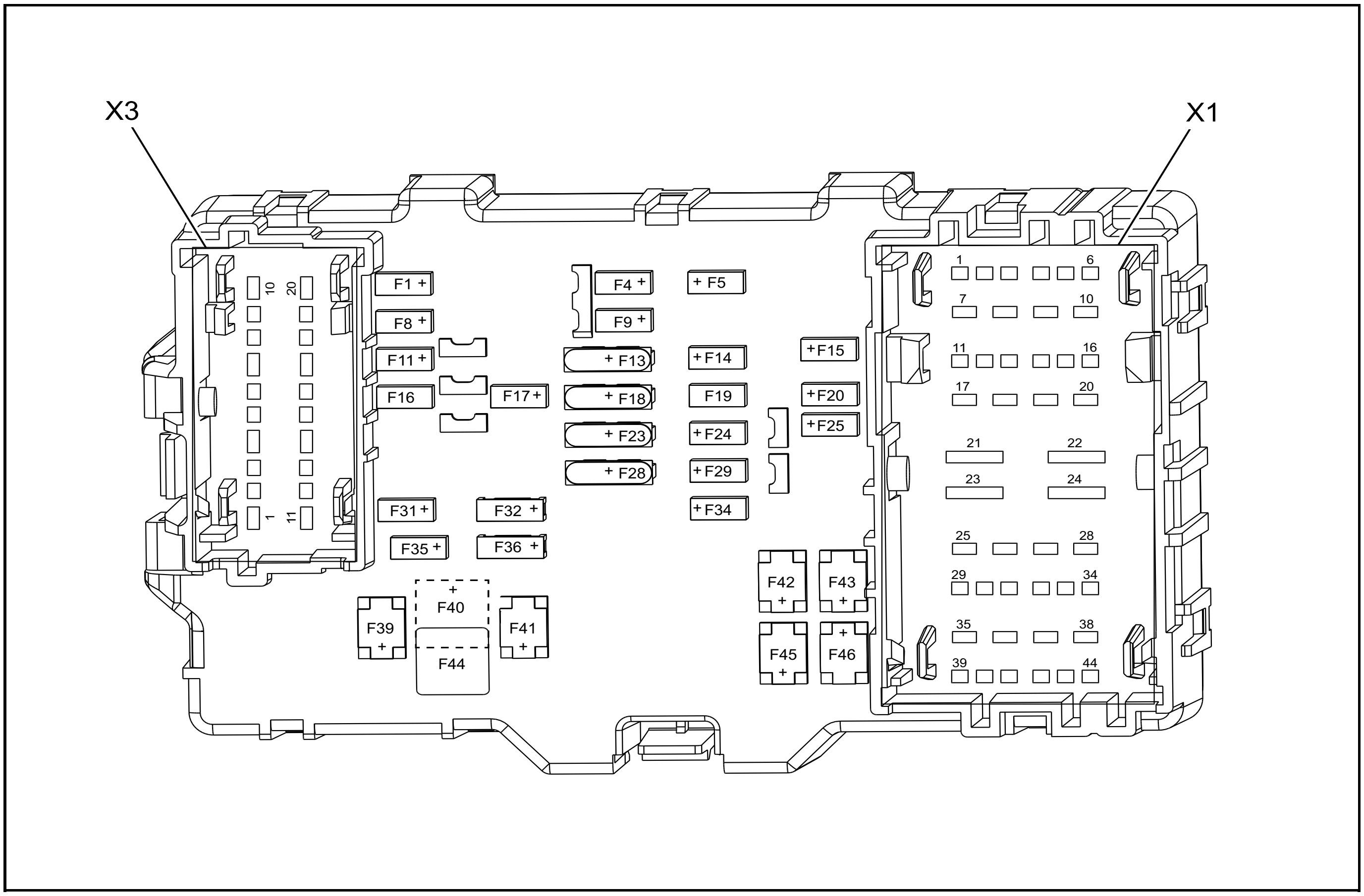
F38
BOTTOM SIDE
F39
F44
F40
F41
K1
K2
K3
F42
F43
F45
F46
1 BCM 1 (15A)
2 EMPTY
3 EMPTY
4 STR/WHL/CNTRL (5A)
5 BCM 2 (15A)
6 EMPTY
7 EMPTY
8 MIR WNDW MDL (5A)
9 I/P CLSTR (10A)
10 EMPTY
11 BCM 8 (30A)
12 EMPTY
13 ONSTAR/HVAC (10/10A)
14 RDO/INFOTMNT (20A)
15 BCM 6 (20A)
16 CGM (10A)
17 BCM 4 (20A)
18 AIRBAG (10A)
19 EMPTY
20 AMP (30A)
21 EMPTY
22 EMPTY
23 DLC/USB (10/10A)
24 HVAC RUN/CRNK (5A)
25 BCM 7 (20A)
26 EMPTY
27 EMPTY
28 I/P IGN/SDM IGN (10/10A)
29 MISC RUN/CRNK (10A)
30 EMPTY
31 FRT CAMERA (10A)
32 SWC BKLT (2A)
33 HTD STR WHL/SPARE (7.5A)
34 VENT SEAT FRT (15A)
35 PRNDL/WCS (10A)
36 DLIS (2A)
37 EMPTY
38 EMPTY
39 APO 2 (15A)
40 APO (50A)
41 APO 1/LTR (15A)
42 LT PWR WNDW (30A)
43 DRVR PWR SEAT (30A)
44 EMPTY
45 RT PWR WNDW (30A)
46 PASS PWR SEAT (30A)
BOTTOM SIDE RELAYS
K1 RAP/ACCY
K2 RUN/CRANK
K3 EMPTY

4649898

X51A Fuse Block - Instrument Panel Top View Fuses


X3
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3818716

Usage Table

No.	Device Label Name	Device Assigned Name	Rating	Description
Fuses				
F1	BCM 1	F1DA	15A	• K9 Body Control Module
F2	EMPTY	F2DA	—	• Not Used
F3	EMPTY	F3DA	—	• Not Used
F4	STR/WHL/CNTRL	F4DA	5A	• S70L Steering Wheel Controls Switch - Left • S70R Steering Wheel Controls Switch - Right
F5	BCM 2	F5DA	15A	• K9 Body Control Module
F6	EMPTY	F6DA	—	• Not Used
F7	EMPTY	F7DA	—	• Not Used
F8	MIR WNDW MDL	F8DA	5A	• S79D Window Switch - Driver • S52 Outside Rearview Mirror Switch (DL6/DL9)
F9	I/P CLSTR	F9DA	10A	• P16 Instrument Cluster • P17 Info Display Module • S32D Seat Heating Switch - Driver (KA1) • S32P Seat Heating Switch - Passenger (KA1) • A26 HVAC Controls
F10	EMPTY	F10DA	—	• Not Used
F11	BCM 8	F11DA	30A	• K9 Body Control Module
F12	EMPTY	F12DA	—	• Not Used

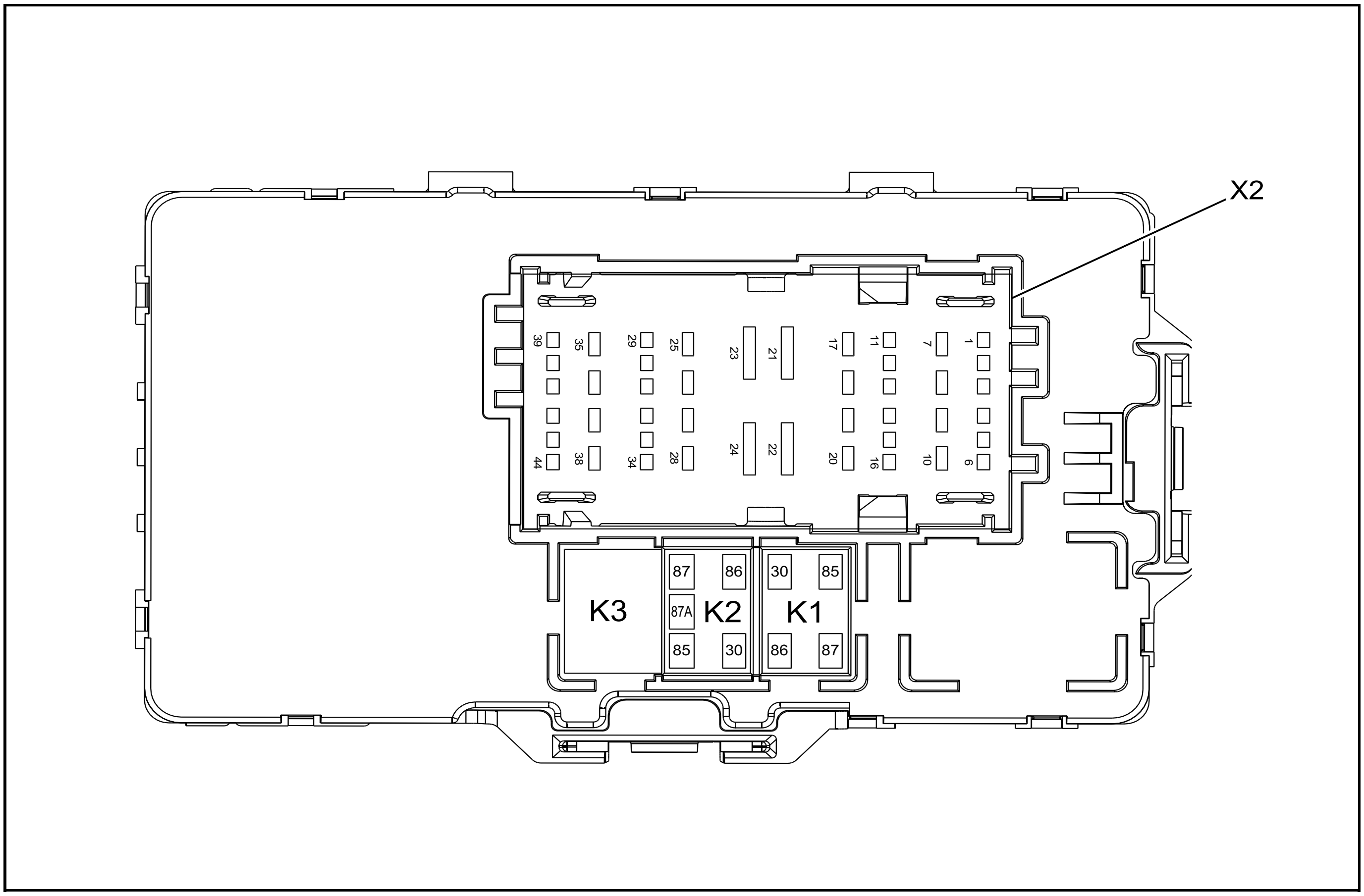
Usage Table (cont'd)

No.	Device Label Name	Device Assigned Name	Rating	Description
F13	ONSTAR/HVAC	F13DA	10A	• K33 HVAC Control Module • K73 Telematics Communication Interface Control Module (UE1)
F14	RDO/INFOTMNT	F14DA	20A	• A11 Radio
F15	BCM 6	F15DA	20A	• K9 Body Control Module
F16	EMPTY	F16DA	—	• K56 Serial Data Gateway Module
F17	BCM 4	F17DA	20A	• K9 Body Control Module
F18	AIRBAG	F18DA	10A	• K85 Passenger Presence Module • K36 Inflatable Restraint Sensing and Diagnostic Module
F19	EMPTY	F19DA	—	• Not Used
F20	AMP	F20DA	30A	• T3 Audio Amplifier (UQA)
F21	EMPTY	F21DA	—	• Not Used
F22	EMPTY	F22DA	—	• Not Used
F23	DLC/USB	F23DA	10A	• X84 Data Link Connector • X83 Auxiliary Audio Input • X83R Auxiliary Audio Input - Rear • X92C USB Receptacle - Center Console Rear
F24	HVAC RUN/CRNK	F24DA	5A	• E40 Electrical Auxiliary Heater (LWN) • K33 HVAC Control Module
F25	BCM 7	F25DA	20A	• K9 Body Control Module
F26	EMPTY	F26DA	—	• Not Used
F27	EMPTY	F27DA	—	• Not Used
F28	I/P IGN/SDM IGN	F28DA	10A	• P14 Passenger Air Bag Disabled Indicator • P16 Instrument Cluster • and P43 Collision Alert Indicators (UEU)
F29	MISC RUN/CRNK	F29DA	10A	• B87 Rearview Camera • K69 Transfer Case Control Module (NQ6/NQ7) • A10 Inside Rearview Mirror
F30	EMPTY	F30DA	—	• Not Used
F31	FRT CAMERA	F31DA	10A	• B174W Frontview Camera - Windshield • K182 Parking Assist Control Module
F32	SWC BKLT	F32DA	2A	• S48A Multifunction Switch - Instrument Panel • S77 Transfer Case Shift Control Switch (NQ6/NQ7) • S30 Headlamp Switch • X85 Steering Wheel Air Bag Coil
F33	HTD STR WHL/ SPARE	F33DA	7.5A	• K32 Steering Wheel Heating Control Module
F34	EMPTYVent Seat FRT	F34DA	15A	• M37A Seat Blower Motor - Driver Back • M37B Seat Blower Motor - Passenger back • M73C Seat Blower Motor - Driver Cushion • M73D Seat Blower Motor - Passenger Cushion
F35	PRNDL	F35DA	10A	• P2 Transmission Shift Lever Position Indicator (MYB) • T22 Mobile Device Wireless Charger Module
F36	DLIS	F36DA	2A	• S39 Ignition Switch
F37	EMPTY	F37DA	—	• Not Used
F38	EMPTY	F38DA	—	• Not Used

Usage Table (cont'd)

No.	Device Label Name	Device Assigned Name	Rating	Description
F39	APO 2	F39DA	15A	• X80B Accessory Power Receptacle - Center Console 2
F40	APO	F40DA	50A	• F39DA • F41DA • X80A Accessory Power Receptacle - Center Console 1 • X80B Accessory Power Receptacle - Center Console 2 • E32 Cigarette Lighter Receptacle (SAO)
F41	APO 1/LTR	F41DA	15A	• E32 Cigarette Lighter Receptacle (SAO) • X80A Accessory Power Receptacle - Center Console 1
F42	LT PWR WNDW	F42DA	30A	• M74D Window Motor - Driver • S79LR Window Switch - Left Rear
F43	DRVR PWR SEAT	F43DA	30A	• S64D Seat Adjuster Switch - Driver
F44	APO	F44DA	50A	• F39DA • F41DA • X80A Accessory Power Receptacle - Center Console 1 • X80B Accessory Power Receptacle - Center Console 2 • E32 Cigarette Lighter Receptacle (SAO)
F45	RT PWR WNDW	F45DA	30A	• S79P Window Switch - Passenger • S79RR Window Switch - Right Rear
F46	PASS PWR SEAT	F46DA	30A	• S64P Seat Adjuster Switch - Passenger (AAQ)

X51A Fuse Block - Instrument Panel Bottom View Relays


X2
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22
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16
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K3
87
86
87A
K2
85
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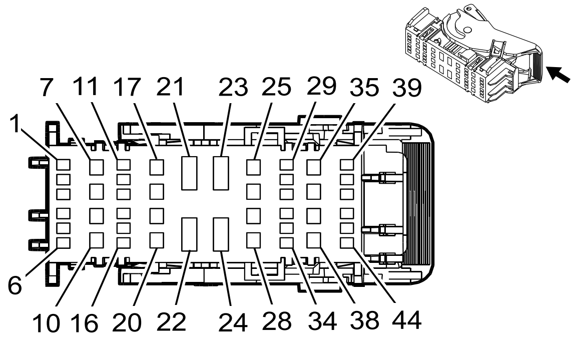
30
85
K1
86
87

3818830

Usage Table

No.	Device Label Name	Device Assigned Name	Rating	Description
Relays				
K1	K1	KR76 Retained Accessory Power Relay	—	• F35DA • F44DA
K2	K2	KR73 Ignition Main Relay	—	• F24DA • F28DA • F29DA
K3	K3	—	—	• Not Used

X51A Fuse Block - Instrument Panel X1



Connector Part Information

Harness Type: Body
OEM Connector: 13967687
Service Connector: 19329455
Description: 44-Way F 1.5, 2.8, 800 Metri-Pack Series (BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	19301752	J-35616-4A (PU)	J-38125-11A	Not Available	Not Available	Not Available	Not Available
II	19301767	J-35616-2A (GY)	J-38125-560	Not Available	Not Available	Not Available	Not Available
III	—	—	—	Not Available	Not Available	Not Available	Not Available

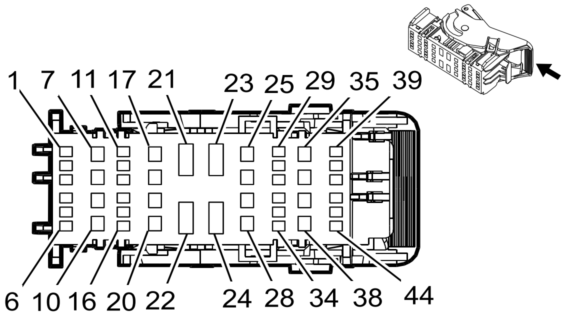
X51A Fuse Block - Instrument Panel X1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.75	RD/BN	2240	Battery Positive Voltage	II	—
2	0.5	RD/GY	2840	Battery Positive Voltage	II	—
3	0.35	RD/YE	3040	Battery Positive Voltage	II	—
4	0.5	RD/WH	2040	Battery Positive Voltage	II	—
5	0.5	RD/L-GN	4440	Battery Positive Voltage	II	—
6 - 13	—	—	—	Not Occupied	—	—
14	0.5	RD/L-BU	3240	Battery Positive Voltage	II	—
15	—	—	—	Not Occupied	—	—
16	0.35	RD/VT	1940	Battery Positive Voltage	II	—
17	2.5	RD/YE	3740	Battery Positive Voltage	I	—
18	1.5	RD/WH	2740	Battery Positive Voltage	I	—
19	1.5	RD/VT	2640	Battery Positive Voltage	I	—
20	—	—	—	Not Occupied	—	—
21	10	RD/VT	842	Battery Positive Voltage	III	—
22	—	—	—	Not Occupied	—	—
23	10	RD/L-BU	42	Battery Positive Voltage	III	—
24	—	—	—	Not Occupied	—	—

X51A Fuse Block - Instrument Panel X1 (cont'd)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
25	2.5	RD/L-BU	1240	Battery Positive Voltage	I	—
26	—	—	—	Not Occupied	—	—
27	2.5	RD/YE	5040	Battery Positive Voltage	I	—
28 - 29	—	—	—	Not Occupied	—	—
30	0.75	VT/BK	1239	Run/Crank Ignition 1 Voltage	II	—
31	—	—	—	Not Occupied	—	—
32	0.35	VT/L-GN	1739	Run/Crank Ignition 1 Voltage	II	—
33 - 34	—	—	—	Not Occupied	—	—
35	2.5	RD/WH	1340	Battery Positive Voltage	I	—
36	2.5	RD/BN	1440	Battery Positive Voltage	I	—
37 - 41	—	—	—	Not Occupied	—	—
42	0.35	L-GN/VT	5199	Run/Crank Relay Coil Control	II	—
43	0.35	GY/VT	755	RAP Relay Coil Control	II	—
44	0.35	VT	801	Retained Accessory Power Fuse Control	II	—

X51A Fuse Block - Instrument Panel X2



3240119

Connector Part Information

Harness Type: Body
OEM Connector: 13967688
Service Connector: 19329456
Description: 44-Way F 1.5, 2.8, 800 Metri-Pack Series (GY)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	19300649	J-35616-4A (PU)	J-38125-11A	Not Available	Not Available	Not Available	Not Available
II	19301752	J-35616-4A (PU)	J-38125-11A	Not Available	Not Available	Not Available	Not Available
III	19301761	J-35616-4A (PU)	J-38125-11A	Not Available	Not Available	Not Available	Not Available
IV	19301767	J-35616-2A (GY)	J-38125-560	Not Available	Not Available	Not Available	Not Available

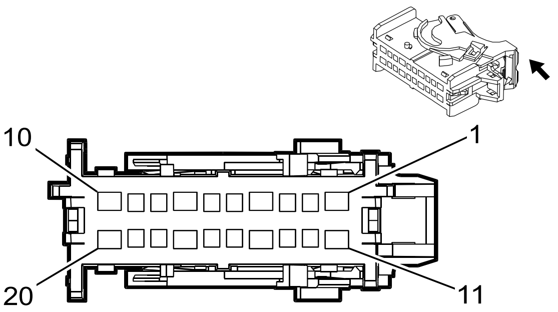
X51A Fuse Block - Instrument Panel X2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1 - 2	—	—	—	Not Occupied	—	—
3	0.35	YE	6817	LED Backlight Dimming Control	IV	—
4	0.35	BN	6136	Control	IV	—
5	0.5	RD/L-BU	540	Battery Positive Voltage	IV	—
6	—	—	—	Not Occupied	—	—
7	2.5	RD/VT	4040	Battery Positive Voltage	II	—
8	0.35	RD/WH	6440	Battery Positive Voltage	I	—
9	—	—	—	Not Occupied	—	—
10	1.5	VT	2101	Retained Accessory Power Fuse Ignition	II	—
11 - 13	—	—	—	Not Occupied	—	—
14	0.5	RD/VT	340	Battery Positive Voltage	IV	—
15	0.5	VT/WH	1139	Run/Crank Ignition 1 Voltage	IV	—
16 - 17	—	—	—	Not Occupied	—	—
18	2.5	RD/L-GN	2440	Battery Positive Voltage	II	—
19	—	—	—	Not Occupied	—	—
20	1.5	VT	1701	Retained Accessory Power Ignition	II	—

X51A Fuse Block - Instrument Panel X2 (cont'd)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
21 - 24	—	—	—	Not Occupied	—	—
25	0.5	RD/VT	3340	Battery Positive Voltage	I	—
26	—	—	—	Not Occupied	—	—
27	0.5	RD/WH	640	Battery Positive Voltage	I	—
28	0.5	VT/BK	1639	Run/Crank Ignition 1 Voltage	I	—
29 - 34	—	—	—	Not Occupied	—	—
35	1	RD/VT	340	Battery Positive Voltage	III	—
36	—	—	—	Not Occupied	—	—
37	0.35	VT/GY	539	Run/Crank Ignition 1 Voltage	I	—
38	0.5	VT/L-GN	1739	Run/Crank Ignition 1 Voltage	I	—
39 - 43	—	—	—	Not Occupied	—	—
44	0.75	BK	2050	Ground	IV	—

X51A Fuse Block - Instrument Panel X3



3240104

Connector Part Information

Harness Type: Body
OEM Connector: 15547106
Service Connector: 13597270
Description: 20-Way F 1.5, 2.8 OCS Series (BK)

Terminal Part Information

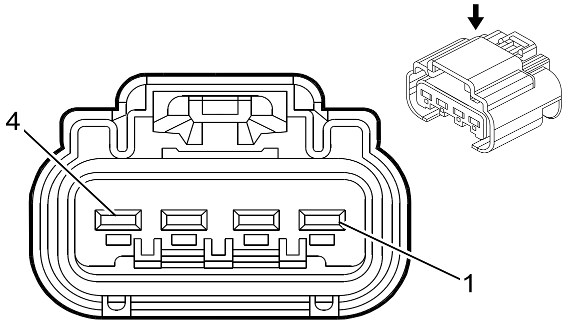
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	19300649	J-35616-4A (PU)	J-38125-11A	Not Available	Not Available	Not Available	Not Available
II	19301767	J-35616-2A (GY)	J-38125-560	Not Available	Not Available	Not Available	Not Available

X51A Fuse Block - Instrument Panel X3

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1 - 10	—	—	—	Not Occupied	—	—
11	0.5	VT	4601	Retained Accessory Power Fused Control	I	—
12	0.75	RD/L-GN	3140	Battery Positive Voltage	II	—
13	0.5	VT/L-GN	1739	Run/Crank Ignition 1 Voltage	II	—
14	0.35	VT/WH	1139	Run/Crank Ignition 1 Voltage	I	—
15 - 20	—	—	—	Not Occupied	—	—

Component Connector End Views

A7 Fuel Pump and Level Sensor Assembly (LCV/LGZ)



1962075

Connector Part Information

Harness Type: Chassis
OEM Connector: 13527865
Service Connector: 13587174
Description: 4-Way F 280 GT Series, Sealed (NA)

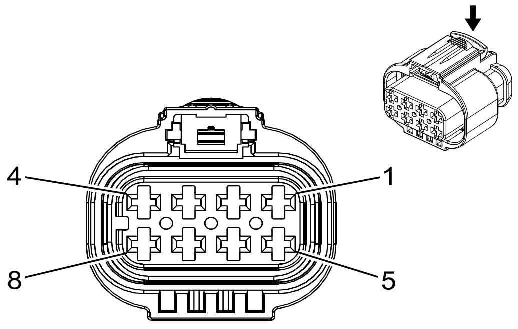
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-4A (PU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

A7 Fuel Pump and Level Sensor Assembly (LCV/LGZ)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	2.5	GY	120	Fuel Pump Control	I	—
2	2.5	BK/L-GN	1580	Fuel Pump Low Reference	I	—
3	0.5	BK/L-GN	6281	Fuel Level Sensor Low Reference	I	—
4	0.5	L-BU/VT	1589	Primary Fuel Level Sensor Signal	I	—

A7 Fuel Pump and Level Sensor Assembly (LWN)



3749581

Connector Part Information

Harness Type: Chassis
OEM Connector: 2109441-2
Service Connector: —
Description: 8-Way F 2.8 Series, Sealed (BK)

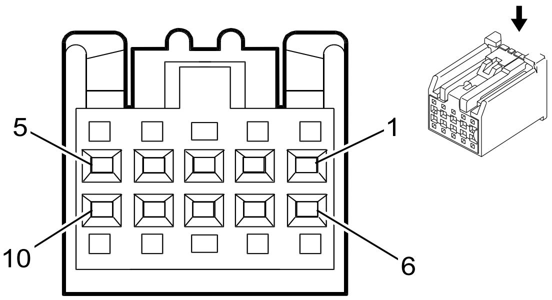
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-4A (PU)	No Tool Required	Not Required	Not Required	Not Required	Not Required
II	Not Required	—	No Tool Required	Not Required	Not Required	Not Required	Not Required

A7 Fuel Pump and Level Sensor Assembly (LWN)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1 - 2	—	—	—	Not Occupied	—	—
3	2.5 2.5	GY GY	120 120	Fuel Pump Control Fuel Pump Control	II I	LWN LWN+CREW CAB
4	2.5 2.5	BK BK	1950 1950	Ground Ground	II I	LWN LWN+CREW CAB
5	0.5	L-BU/VT	1589	Primary Fuel Level Sensor Signal	I	—
6	0.5	BK/L-GN	6281	Fuel Level Sensor Low Reference	I	—
7 - 8	—	—	—	Not Occupied	—	—

A10 Inside Rearview Mirror



2180211

Connector Part Information

Harness Type: Headliner
OEM Connector: AIT2PB-10P-2AK
Service Connector: 13577390
Description: 10-Way F 0.64 Kaizen Series (BK)

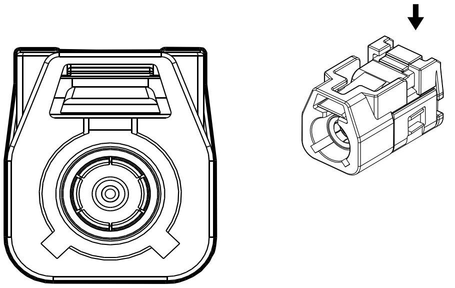
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13575742	J-35616-64B (LT BU)	J-38125-215A	SAIT-A03T-M064	Yazaki 14	P	P
II	13575867	J-35616-64B (LT BU)	J-38125-215A	SAIT-A03T-M064	Yazaki 14	P	P

A10 Inside Rearview Mirror

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	L-GN/WH	24	Backup Lamp Control	I	—
2	0.5	VT/L-GN	1739	Run/Crank Ignition 1 Voltage	I	—
3	0.35	L-GN/WH	2514	Keypad Signal	II	—
4	0.5	L-GN/BK	2515	Keypad Control	I	—
5	0.5	BK	3150	Ground	I	—
6	0.35	YE/VT	2516	Keypad Green LED Control	II	—
7	0.35	BN/WH	2517	Keypad Red LED Control	II	—
8 - 10	—	—	—	Not Occupied	—	—

A11 Radio X8 ((IOS/IOT)+U2K)



3530727

Connector Part Information

Harness Type: Instrument Panel COAX
OEM Connector: 13586878
Service Connector: Service by Cable Assembly — See Part Catalog
Description: 1-Way F Coax Type (CU)

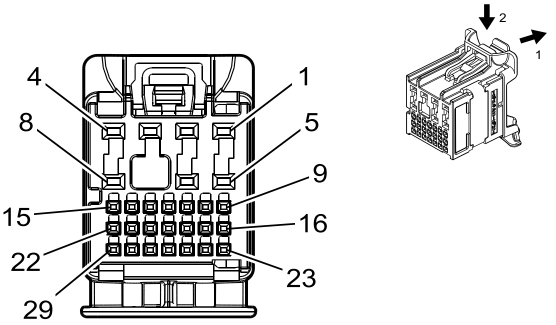
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	No Tool Required	No Tool Required	Not Required	Not Required	Not Required	Not Required

A11 Radio X8 ((IOS/IOT)+U2K)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
—	—	Coax	—	(XM +/-HD) Coaxial Antenna XM Signal	I	—

A11 Radio X2 ((IOS/IOT)+UQ3)



4578560

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 160014-0001
Service Connector: 19355494
Description: 29-Way F 0.5 NANO, 1.2 MCON Series Sealed (GY)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	19300649	J-35616-16 (LT GN)	J-38125-21	Not Available	Not Available	Not Available	Not Available
II	19354361	EL-35616-58 (BK)	EL-38125-58	Not Available	Not Available	Not Available	Not Available
III	—	EL-35616-58 (BK)	EL-38125-58	Not Available	Not Available	Not Available	Not Available

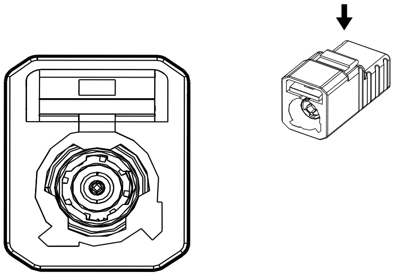
A11 Radio X2 ((IOS/IOT)+UQ3)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.75	L-GN	199	Left Rear Speaker Control (+)	I	—
2	0.75	L-BU	201	Left Front Speaker Control (+) 1	I	—
3	0.75	YE/BK	117	Right Front Speaker Signal (-) 1	I	—
4	0.75	L-BU/BK	115	Right Rear Speaker Signal (-)	I	—
5	0.75	BN/L-BU	118	Left Front Speaker Signal (-) 1	I	—
6	0.75	YE	200	Right Front Speaker Control (+) 1	I	—
7	—	—	—	Not Occupied	—	—
8	0.75	WH	46	Right Rear Speaker Control (+)	I	—
9	0.35	L-BU/L-GN	1304	High Speed GMLAN Serial Data (+)9	II	—
10	0.35	WH/L-GN	1305	High Speed GMLAN Serial Data (-)9	II	—
11	0.35	L-BU/L-GN	1304	High Speed GMLAN Serial Data (+)9	II	—
12	0.35	WH/L-GN	1305	High Speed GMLAN Serial Data (-)9	II	—
13	0.35	L-GN/WH	24	Backup Lamp Control	II	—
14 - 17	—	—	—	Not Occupied	—	—
18	0.5	GY/L-GN	1102	Low Speed GMLAN Serial Data #2	III	—
19 - 27	—	—	—	Not Occupied	—	—

A11 Radio X2 ((IOS/IOT)+UQ3) (cont'd)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
28	0.5	WH/L-BU	5986	Serial Data Communication Enable	III	—
29	—	—	—	Not Occupied	—	—

A11 Radio X5 ((IOS/IOT)+UVB)



4883495

Connector Part Information

Harness Type: Instrument Panel COAX
OEM Connector: 13583902
Service Connector: Service by Cable Assembly — See Part Catalog
Description: 1-Way F Coax Type (OG)

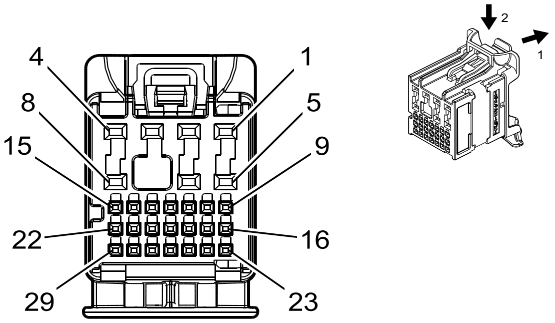
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	No Tool Required	No Tool Required	Not Required	Not Required	Not Required	Not Required

A11 Radio X5 ((IOS/IOT)+UVB)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
—	—	Coax	—	(ISRVM) Camera Video Signal	I	—

A11 Radio X1 (IOR)



4584346

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 160014-0002
Service Connector: 13506123
Description: 29-Way F 0.5 NANO, 1.2 MCON Series Sealed (GN)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	19300649	J-35616-16 (LT GN)	J-38125-21	Not Available	Not Available	Not Available	Not Available
II	19354361	EL-35616-58 (BK)	EL-38125-58	Not Available	Not Available	Not Available	Not Available

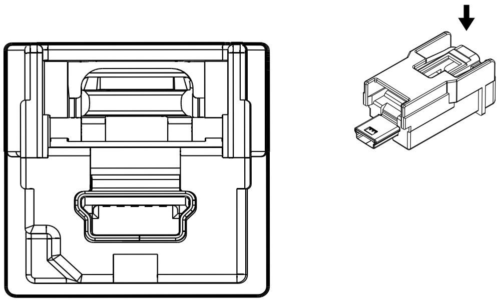
A11 Radio X1 (IOR)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.75	RD/VT	340	Battery Positive Voltage	I	—
2	0.75	RD/VT	340	Battery Positive Voltage	I	—
3	0.75	BK/WH	2051	Signal Ground	I	—
4	0.35	L-BU/RD	2807	Radio Keypad Voltage Reference	I	—
5	0.35	BK/L-GN	2804	Radio Display Backlight Low Reference	I	—
6	0.75	BK/WH	2051	Signal Ground	I	—
7	—	—	—	Not Occupied	—	—
8	0.75	L-GN/BK	116	Left Rear Speaker Signal (-)	I	—
9	0.35	GY/L-BU	2803	Radio Display Touch Interrupt Request Signal	II	—
10	—	—	—	Not Occupied	—	—
11	0.35	L-GN/WH	24	Backup Lamp Control	II	—
12	0.35	GY/L-GN	1102	Low Speed GMLAN Serial Data #2	II	—
13 - 14	—	—	—	Not Occupied	—	—
15	0.35	L-BU/GY	2808	Radio Keypad Dimming Control	II	—
16 - 20	—	—	—	Not Occupied	—	—
21	0.35	GY/VT	3363	Navigation Display Dimming Control	II	—
22	0.35	L-BU/L-GN	2813	Radio Display Backlight Dimming Control	II	—
23	—	—	—	Not Occupied	—	—

A11 Radio X1 (IOR) (cont'd)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
24	0.35	BN/WH	2809	Radio Keypad Power Signal	II	—
25	0.35	VT/WH	2810	Radio Keypad Button Signal	II	—
26	0.35	L-BU	4315	Radio Volume Up Signal	II	—
27	0.35	GY/BN	4314	Radio Volume Down Signal	II	—
28 - 29	—	—	—	Not Occupied	—	—

A11 Radio X4 (IOR)



2807491

Connector Part Information

Harness Type: Instrument Panel USB
OEM Connector: 13576673
Service Connector: Service by Cable Assembly — See Part Catalog
Description: 5-Way M 2.0 Mini-B USB Type (GY)

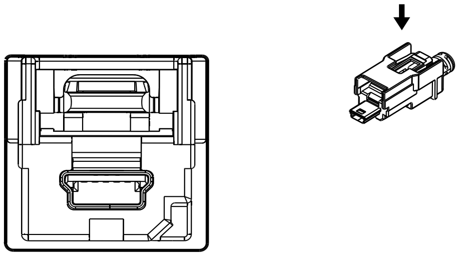
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	No Tool Required	No Tool Required	Not Required	Not Required	Not Required	Not Required

A11 Radio X4 (IOR)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
—	—	USB	—	USB Serial Data	I	—

A11 Radio X5 (IOR)



2807425

Connector Part Information

Harness Type: Instrument Panel USB
OEM Connector: 13576672
Service Connector: Service by Cable Assembly — See Part Catalog
Description: 5-Way M 2.0 Mini-B USB Type (BK)

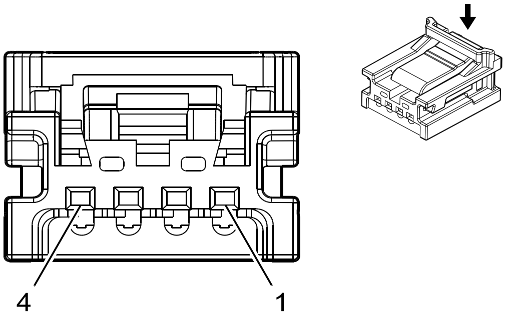
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	No Tool Required	No Tool Required	Not Required	Not Required	Not Required	Not Required

A11 Radio X5 (IOR)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
—	—	USB	—	USB Serial Data	I	—

A11 Radio X6 (IOR)



4215060

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 34791-5140
Service Connector: 19354840
Description: 4-Way F Mini 50 Series (BK)

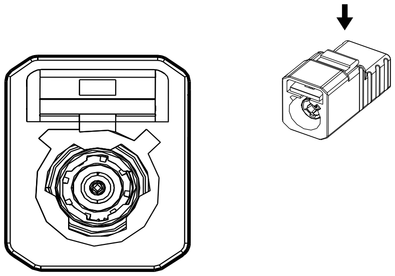
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	EL-35616-58 (BK)	No Tool Required	Not Required	Not Required	Not Required	Not Required

A11 Radio X6 (IOR)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	—	—	—	Not Occupied	—	—
2	0.35	GY/WH	7211	Ethernet Bus 4 (+)	I	—
3	0.35	GY	7210	Ethernet Bus 4 (-)	I	—
4	—	—	—	Not Occupied	—	—

A11 Radio X3 (IOR+U2K)



Connector Part Information

Harness Type: Instrument Panel COAX
OEM Connector: 13581686
Service Connector: Service by Cable Assembly — See Part Catalog
Description: 1-Way F Coax Type (BK)

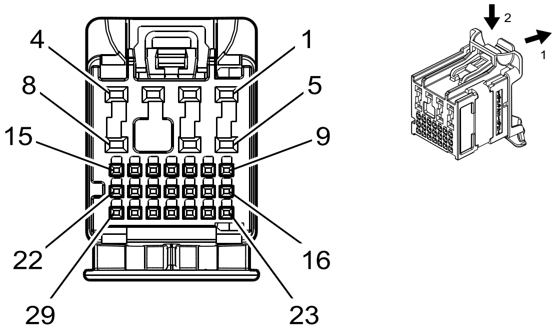
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	No Tool Required	No Tool Required	Not Required	Not Required	Not Required	Not Required

A11 Radio X3 (IOR+U2K)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
—	—	Coax	—	(AM/FM) Antenna RF Signal	I	—

A11 Radio X2 (IOR+UQ3)



4584398

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 160014-0003
Service Connector: 13506123
Description: 29-Way F 0.5 NANO, 1.2 MCON Series Sealed (GY)

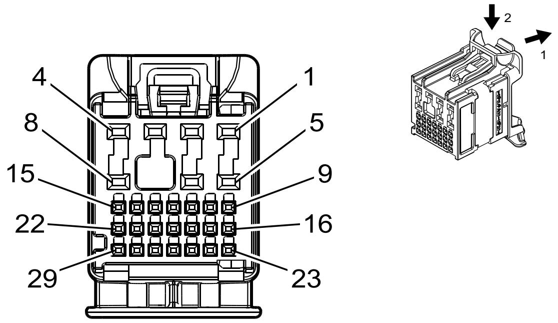
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	19300649	J-35616-16 (LT GN)	J-38125-21	Not Available	Not Available	Not Available	Not Available
II	19354361	EL-35616-58 (BK)	EL-38125-58	Not Available	Not Available	Not Available	Not Available

A11 Radio X2 (IOR+UQ3)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.75	L-GN	199	Left Rear Speaker Control (+)	I	—
2	0.75	L-BU	201	Left Front Speaker Control (+) 1	I	—
3	0.75	YE	200	Right Front Speaker Control (+) 1	I	—
4	0.75	L-BU/BK	115	Right Rear Speaker Signal (-)	I	—
5	0.75	BN/L-BU	118	Left Front Speaker Signal (-) 1	I	—
6	0.75	YE/BK	117	Right Front Speaker Signal (-) 1	I	—
7	—	—	—	Not Occupied	—	—
8	0.75	WH	46	Right Rear Speaker Control (+)	I	—
9	0.35	BK/GY	5152	Voice Recognition Audio Low Reference	II	—
10	0.35	GY/YE	5149	Voice Recognition Audio Signal	II	—
11	—	—	—	Not Occupied	—	—
12	0.35	GY/YE	6972	Camera Signal 2 +	II	—
13	0.35	WH/L-BU	6973	Camera Signal 2	II	—
14 - 29	—	—	—	Not Occupied	—	—

A11 Radio X1 (IOS/IOT)



4496253

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 160014-0004
Service Connector: 13506123
Description: 29-Way F 0.5 NANO, 1.2 MCON Series Sealed (BK)

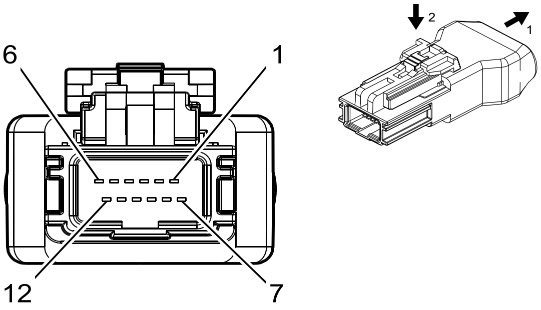
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	19300649	J-35616-16 (LT GN)	J-38125-21	Not Available	Not Available	Not Available	Not Available
II	19354361	EL-35616-58 (BK)	EL-38125-58	Not Available	Not Available	Not Available	Not Available

A11 Radio X1 (IOS/IOT)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.75	RD/VT	340	Battery Positive Voltage	I	—
2	0.75	RD/VT	340	Battery Positive Voltage	I	—
3	0.75	BK/WH	2051	Signal Ground	I	—
4 - 5	—	—	—	Not Occupied	—	—
6	0.75	BK/WH	2051	Signal Ground	I	—
7	—	—	—	Not Occupied	—	—
8	0.75	L-GN/BK	116	Left Rear Speaker Signal (-)	I	—
9	0.35	GY/YE	5149	Voice Recognition Audio Signal	II	—
10	0.35	BK/GY	5152	Voice Recognition Audio Low Reference	II	—
11	0.35	VT/YE	7043	Microphone (+) Signal	II	—
12	0.35	L-BU/BK	7044	Microphone (-) Low Reference	II	—
13 - 29	—	—	—	Not Occupied	—	—

A11 Radio X3 (IOS/IOT)



4584321

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 13511515
Service Connector: —
Description: 12-Way M 2.0 HSAL-2 Series (GY)

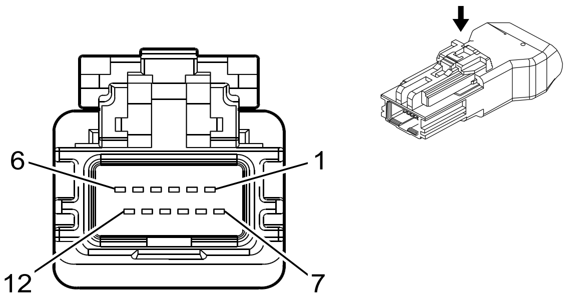
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	No Tool Required	Not Available	Not Available	Not Available	Not Available	Not Available

A11 Radio X3 (IOS/IOT)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	Bare	3365	Navigation Display Low Reference	I	—
2	0.35	L-BU	3366	Navigation Display Signal (+)	I	—
3	0.35	BN	3367	Navigation Display Signal (-)	I	—
4 - 12	—	—	—	Not Occupied	—	—

A11 Radio X4 (IOS/IOT)



4527210

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 13511514
Service Connector: -
Description: 12-Way M 2.0 HSAL-2 Series (BK)

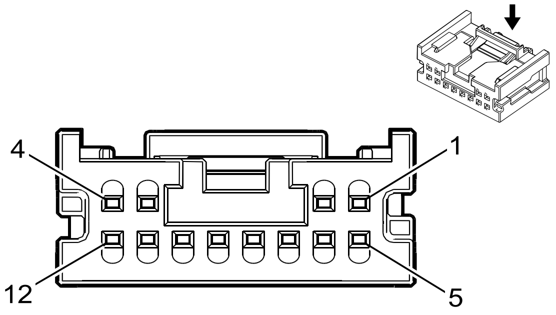
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	No Tool Required	Not Available	Not Available	Not Available	Not Available	Not Available

A11 Radio X4 (IOS/IOT)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1 - 6	—	—	—	Not Occupied	—	—
7	0.35	RD	3149	USB Serial Data Control	I	—
8	0.35	WH	3147	USB D (-) Serial Data	I	—
9	0.35	L-GN	3146	USB D (+) Serial Data	I	—
10	0.35	BK	3148	USB Serial Data Low Reference	I	—
11 - 12	—	—	—	Not Occupied	—	—

A11 Radio X6 (IOS/IOT)



3824362

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 34824-5124
Service Connector: 13507121
Description: 12-Way F Mini 50 Series (BK)

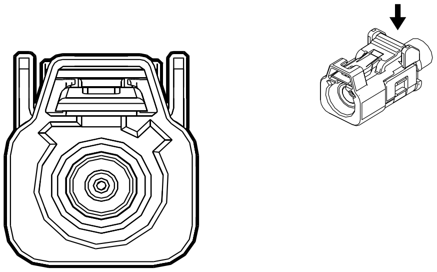
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	19333221	EL-35616-58 (BK)	J-38125-553	Not Available	Not Available	Not Available	Not Available

A11 Radio X6 (IOS/IOT)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1 - 2	—	—	—	Not Occupied	—	—
3	0.35	GY/L-BU	7217	Ethernet Bus 7 (+)	I	—
4	0.35	BN/L-BU	7216	Ethernet Bus 7 (-)	I	—
5 - 7	—	—	—	Not Occupied	—	—
8	0.35	GY/BK	7215	Ethernet Bus 6 (+)	I	—
9	0.35	BN/BK	7214	Ethernet Bus 6 (-)	I	—
10	—	—	—	Not Occupied	—	—
11	0.35	GY/WH	7211	Ethernet Bus 4 (+)	I	—
12	0.35	GY	7210	Ethernet Bus 4 (-)	I	—

A11 Radio X7 (IOS/IOT)



2871907

Connector Part Information

Harness Type: Instrument Panel COAX
OEM Connector: 13580595
Service Connector: Service by Cable Assembly — See Part Catalog
Description: 1-Way F Coax Type (BK)

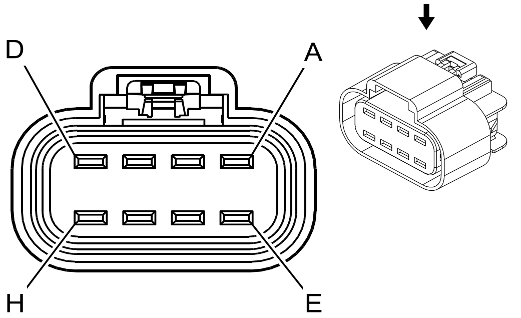
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	No Tool Required	No Tool Required	Not Required	Not Required	Not Required	Not Required

A11 Radio X7 (IOS/IOT)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
—	—	Coax	—	(AM/FM) Antenna RF Signal	I	—

A16 Transfer Case Motor



646372

Connector Part Information

Harness Type: Engine
OEM Connector: 13538370
Service Connector: 19329743
Description: 8-Way F 280 GT Series, Sealed (BK)

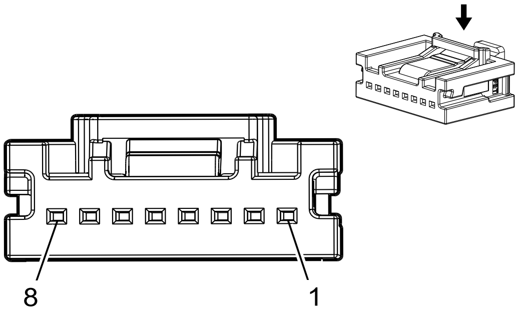
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-4A (PU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

A16 Transfer Case Motor

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	2.5	YE/GY	1552	Transfer Case Motor Clockwise Control	I	—
B	2.5	RD/GY	1342	Battery Positive Voltage	I	—
C	2.5	YE/BN	1569	Transfer Case Lock Solenoid Control	I	—
D	2.5	YE/VT	1553	Transfer Case Motor Counter Clockwise Control	I	—
E	0.5	L-BU/GY	7473	Incremental Encoder Impulse Signal	I	—
F	0.5	YE	7474	Incremental Encoder Direction Signal	I	—
G	0.5	WH/L-GN	7475	Incremental Encoder Sensor 8V Reference	I	—
H	0.5	VT	7476	Incremental Encoder Sensor Low Reference	I	—

A22 Radio Controls (IOR)



4017639

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 34791-5180
Service Connector: 19354223
Description: 8-Way F Mini 50 Series (BK)

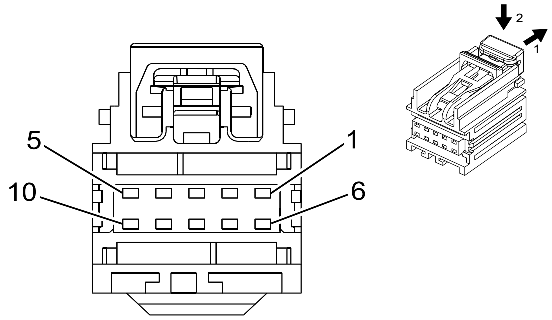
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	EL-35616-58 (BK)	No Tool Required	Not Required	Not Required	Not Required	Not Required

A22 Radio Controls (IOR)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	L-BU/RD	2807	Radio Keypad Voltage Reference	I	—
2	—	—	—	Not Occupied	—	—
3	0.35	BN/WH	2809	Radio Keypad Power Signal	I	—
4	0.35	BK/YE	2806	Radio Keypad Low Reference	I	—
5	0.35	L-BU/GY	2808	Radio Keypad Dimming Control	I	—
6	0.35	VT/WH	2810	Radio Keypad Button Signal	I	—
7	0.35	L-BU	4315	Radio Volume Up Signal	I	—
8	0.35	GY/BN	4314	Radio Volume Down Signal	I	—

A23D Door Latch Assembly - Driver



4622549

Connector Part Information

Harness Type: Driver Door
OEM Connector: 7289-5068-60
Service Connector: Service by Harness - See Part Catalog
Description: 10-Way F 0.64 YESC Kaizen Series (GN)

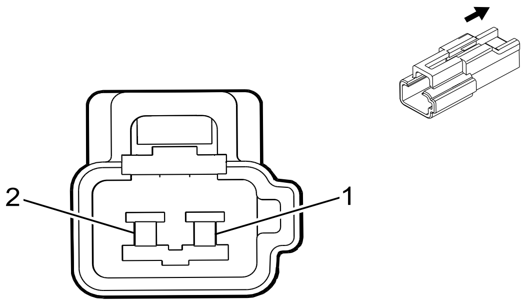
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-64B (LT BU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

A23D Door Latch Assembly - Driver

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	GY	745	Left Front Door Ajar Switch Signal	I	—
2	—	—	—	Not Occupied	—	—
3	0.35	BK	3550	Ground	I	—
4	0.35	WH/VT	3270	Driver Door Lock Motor Status Signal	I	—
5	0.35	L-BU/VT	1124	Door Lock Key Switch Unlock Signal	I	—
6	—	—	—	Not Occupied	—	—
7	0.75	GY	5911	Door Lock Actuator Lock Control 2	I	—
8	0.75	BN/YE	294	Door Lock Actuator Unlock Control	I	—
9 - 10	—	—	—	Not Occupied	—	—

A23G Door Latch Assembly - Left Rear Lower



4141662

Connector Part Information

Harness Type: Left Rear Door
OEM Connector: 7282-6160
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way M 090 Series (NA)

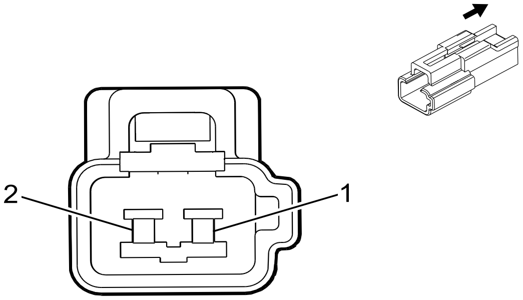
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-19 (BK)	No Tool Required	Not Required	Not Required	Not Required	Not Required

A23G Door Latch Assembly - Left Rear Lower

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	BK	3350	Ground	I	—
2	0.35	GY	747	Left Rear Door Ajar Switch Signal	I	—

A23H Door Latch Assembly - Left Rear Upper



4141662

Connector Part Information

Harness Type: Left Rear Door
OEM Connector: 7282-6160
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way M 090 Series (NA)

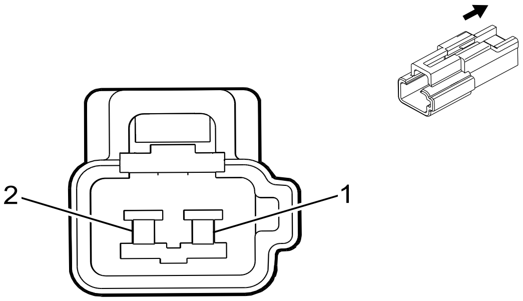
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-19 (BK)	No Tool Required	Not Required	Not Required	Not Required	Not Required

A23H Door Latch Assembly - Left Rear Upper

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	BK	3350	Ground	I	—
2	0.35	GY	747	Left Rear Door Ajar Switch Signal	I	—

A23J Door Latch Assembly - Right Rear Lower



4141662

Connector Part Information

Harness Type: Right Rear Door
OEM Connector: 7282-6160
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way M 090 Series (NA)

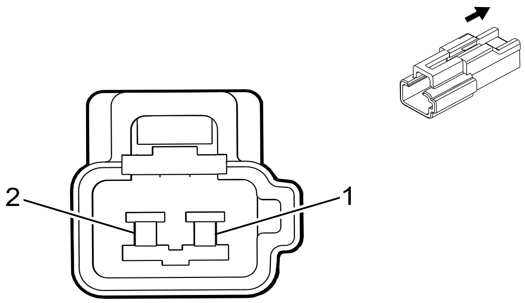
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-19 (BK)	No Tool Required	Not Required	Not Required	Not Required	Not Required

A23J Door Latch Assembly - Right Rear Lower

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	BK	3450	Ground	I	—
2	0.35	GY	748	Right Rear Door Ajar Switch Signal	I	—

A23K Door Latch Assembly - Right Rear Upper



4141662

Connector Part Information

Harness Type: Right Rear Door
OEM Connector: 7282-6160
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way M 090 Series (NA)

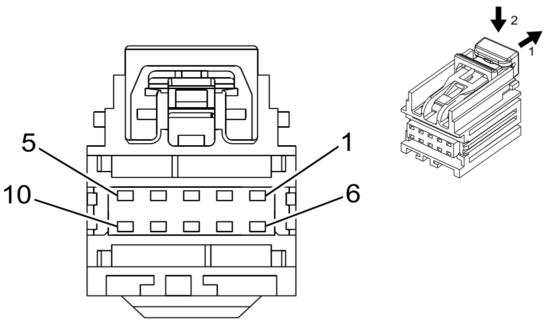
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-19 (BK)	No Tool Required	Not Required	Not Required	Not Required	Not Required

A23K Door Latch Assembly - Right Rear Upper

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	BK	3450	Ground	I	—
2	0.35	GY	748	Right Rear Door Ajar Switch Signal	I	—

A23LR Door Latch Assembly - Left Rear (Crew Cab)



4622549

Connector Part Information

Harness Type: Left Rear Door
OEM Connector: 7289-5068-60
Service Connector: Service by Harness - See Part Catalog
Description: 10-Way F 0.64 YESC Kaizen Series (GN)

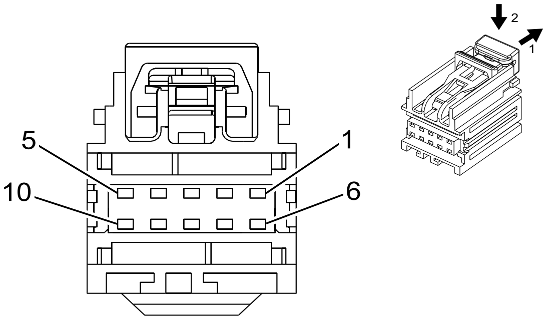
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-64B (LT BU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

A23LR Door Latch Assembly - Left Rear (Crew Cab)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	GY	747	Left Rear Door Ajar Switch Signal	I	—
2	0.35	BN/WH	3269	Child Security Lock Motor Status Signal Left Rear	I	—
3	0.35	BK	3350	Ground	I	—
4 - 6	—	—	—	Not Occupied	—	—
7	0.75	GY	295	Door Lock Actuator Lock Control	I	—
8	0.75	BN/YE	294	Door Lock Actuator Unlock Control	I	—
9	0.75	WH/L-BU	3266	Child Security Lock Motor Lock Control	I	—
10	—	—	—	Not Occupied	—	—

A23P Door Latch Assembly - Passenger



4622549

Connector Part Information

Harness Type: Passenger Door
OEM Connector: 7289-5068-60
Service Connector: Service by Harness - See Part Catalog
Description: 10-Way F 0.64 YESC Kaizen Series (GN)

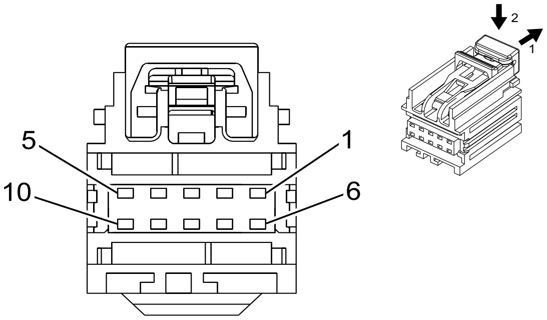
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-64B (LT BU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

A23P Door Latch Assembly - Passenger

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1 - 2	—	—	—	Not Occupied	—	—
3	0.35	BK	3650	Ground	I	—
4	—	—	—	Not Occupied	—	—
5	0.35	GY	746	Right Front Door Ajar Switch Signal	I	—
6 - 7	—	—	—	Not Occupied	—	—
8	0.75	BN/YE	294	Door Lock Actuator Unlock Control	I	—
9	0.75	GY	295	Door Lock Actuator Lock Control	I	—
10	—	—	—	Not Occupied	—	—

A23RR Door Latch Assembly - Right Rear



Connector Part Information

Harness Type: Right Rear Door
OEM Connector: 7289-5068-60
Service Connector: Service by Harness - See Part Catalog
Description: 10-Way F 0.64 YESC Kaizen Series (GN)

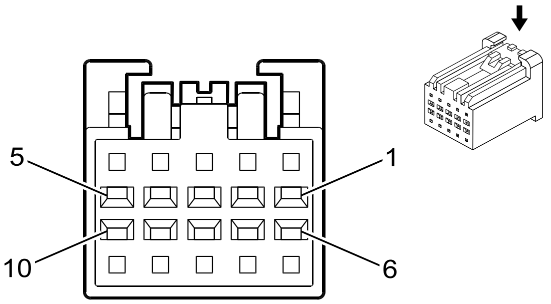
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-64B (LT BU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

A23RR Door Latch Assembly - Right Rear

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1 - 2	—	—	—	Not Occupied	—	—
3	0.35	BK	3450	Ground	I	—
4	0.35	GY/BK	3268	Child Security Lock Motor Status Signal Right Rear	I	—
5	0.35	GY	748	Right Rear Door Ajar Switch Signal	I	—
6	—	—	—	Not Occupied	—	—
7	0.75	WH/L-BU	3266	Child Security Lock Motor Lock Control	I	—
8	0.75	BN/YE	294	Door Lock Actuator Unlock Control	I	—
9	0.75	GY	295	Door Lock Actuator Lock Control	I	—
10	—	—	—	Not Occupied	—	—

A26 HVAC Controls



2840038

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: AIT2PB-10P-2BH
Service Connector: 13581139
Description: 10-Way F 0.64 Kaizen Series (GY)

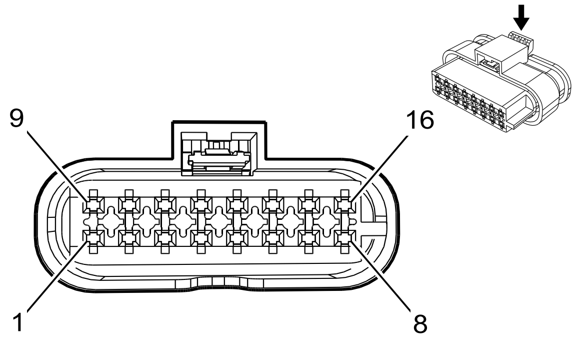
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13575742	J-35616-64B (LT BU)	J-38125-215A	SAIT-A03T-M064	Yazaki 14	P	P
II	13575867	J-35616-64B (LT BU)	J-38125-215A	SAIT-A03T-M064	Yazaki 14	P	P

A26 HVAC Controls

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	RD/GY	2840	Battery Positive Voltage	I	—
2	—	—	—	Not Occupied	—	—
3	0.35	L-GN	5060	Low Speed GMLAN Serial Data	II	—
4 - 8	—	—	—	Not Occupied	—	—
9	0.35	L-GN/YE	7531	Local Interconnect Network Serial Data Bus 9	II	—
10	0.35	BK/WH	2051	Signal Ground	II	—

A38 Reductant Pump and Sensor Assembly (LWN)



4259227

Connector Part Information

Harness Type: Reductant Assembly
OEM Connector: Not Available
Service Connector: Service by Harness - See Part Catalog
Description: 15-Way

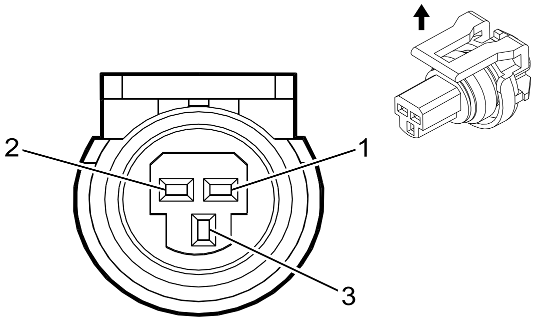
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	Not Available	No Tool Required	Not Required	Not Required	Not Required	Not Required

A38 Reductant Pump and Sensor Assembly (LWN)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	BK/WH	9001	DEF Tank Temperature Sensor Signal	I	—
2	0.5	BK	9002	DEF Tank Temperature Sensor Low Reference	I	—
3	0.5	BK/WH	9003	DEF Pressure Sensor Low Reference	I	—
4	0.5	BK	9004	DEF Pressure Sensor Signal	I	—
5	.5	BK	9005	DEF Pressure Sensor 5V Reference	I	—
6	0.5	BK/WH	9006	DEF Tank Level Sensor Low Reference	I	—
7	1.0	GY/BK	9007	DEF Smart Pump Control Phase 3	I	—
8	1.0	YE/GY	9008	DEF Smart Pump Control Phase 2	I	—
9	1.0	GY/WH	9009	DEF Tank Heater Control	I	—
10	—	—	—	Not Occupied	—	—
11	1.0	BK/WH	9010	DEF Tank Heater Low Control	I	—
12	0.5	BK	9011	DEF Smart Pump Control Phase 1	I	—
13	0.5	BK	9012	Diesel Exhaust Fluid Sensor Voltage Reference	I	—
14	0.5	BK	9013	DEF Tank Level Sensor Signal	I	—
15	1.0	BK	9014	DEF Smart Pump Low Reference	I	—
16	1.0	BK	9015	DEF Smart Pump Control Phase 1	I	—

B1 A/C Refrigerant Pressure Sensor (LCV/LGZ)



2909191

Connector Part Information

Harness Type: Engine
OEM Connector: 13846842
Service Connector: 19301715
Description: 3-Way F 150 GT Series, Sealed (BK)

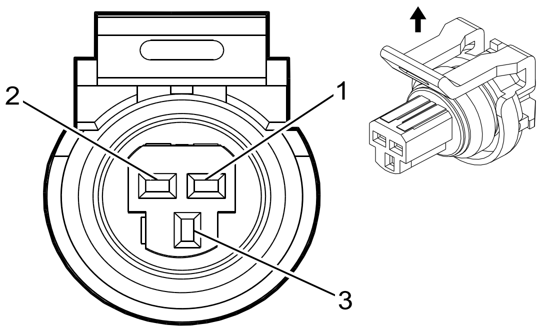
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-14 (GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

B1 A/C Refrigerant Pressure Sensor (LCV/LGZ)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	BK/BN	5514	A/C Refrigerant Pressure Sensor Low Reference	I	—
2	0.5	BN/RD	2700	A/C Pressure Sensor 5V Reference	I	—
3	0.5	L-GN	380	A/C Refrigerant Pressure Sensor Signal	I	—

B1 A/C Refrigerant Pressure Sensor (LWN)



1519475

Connector Part Information

Harness Type: Engine
OEM Connector: 13532244
Service Connector: 88988301
Description: 3-Way F 150 GT Series, Sealed (BK)

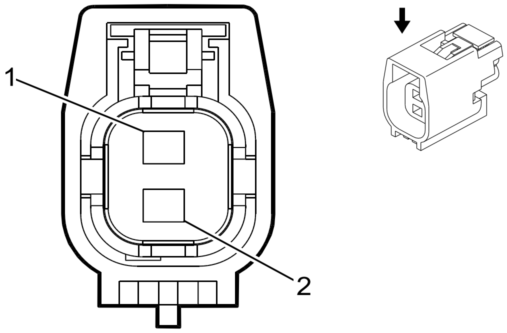
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-14 (GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

B1 A/C Refrigerant Pressure Sensor (LWN)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	BK/BN	5514	A/C Refrigerant Pressure Sensor Low Reference	I	—
2	0.5	BN/RD	2700	A/C Pressure Sensor 5V Reference	I	—
3	0.5	L-GN	380	A/C Refrigerant Pressure Sensor Signal	I	—

B5LF Wheel Speed Sensor - Left Front



2152684

Connector Part Information

Harness Type: Chassis
OEM Connector: 7287-0973-30
Service Connector: 13586115
Description: 2-Way F 1.5 GT Series, Sealed (BK)

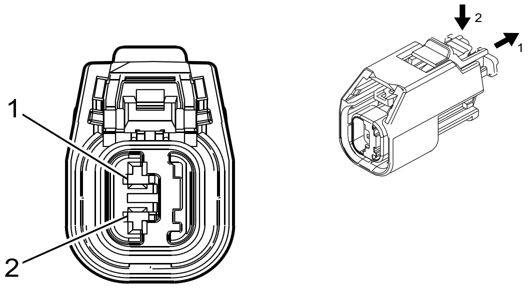
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-14 (GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

B5LF Wheel Speed Sensor - Left Front

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	GY/WH	7064	Wheel Speed Sensor Control Left Front	I	—
2	0.5	GY	830	Wheel Speed Sensor Signal Left Front	I	—

B5LF Wheel Speed Sensor - Left Front



4889830

Connector Part Information

Harness Type: Chassis
OEM Connector: 33164011
Service Connector: 13586115
Description: 2-Way F 1.5 OCS Series, Sealed (BK)

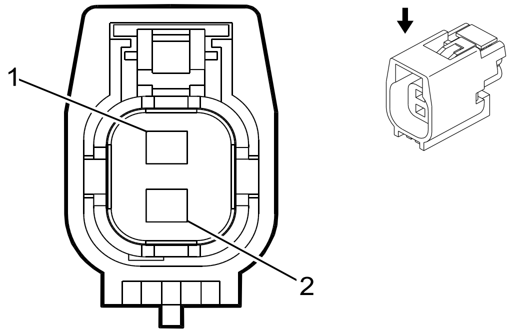
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-14 (GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required
II	Not Required	J-35616-2A (GY)	No Tool Required	Not Required	Not Required	Not Required	Not Required

B5LF Wheel Speed Sensor - Left Front

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5 0.5	GY/WH GY/WH	7064 7064	Wheel Speed Sensor Control Left Front Wheel Speed Sensor Control Left Front	I II	— —
2	0.5	GY	830	Wheel Speed Sensor Signal Left Front	II	—

B5LR Wheel Speed Sensor - Left Rear



2152684

Connector Part Information

Harness Type: Chassis
OEM Connector: 7287-0973-30
Service Connector: 13586115
Description: 2-Way F 1.5 GT Series, Sealed (BK)

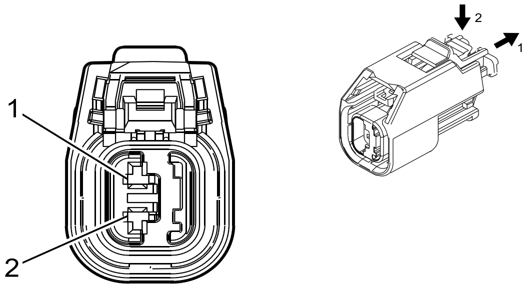
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-14 (GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

B5LR Wheel Speed Sensor - Left Rear

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	GY/BK	7127	Wheel Speed Sensor Control Left Rear	I	—
2	0.5	L-BU	884	Wheel Speed Sensor Signal Left Rear	I	—

B5LR Wheel Speed Sensor - Left Rear



4889830

Connector Part Information

Harness Type: Chassis
OEM Connector: 33164011
Service Connector: 13586115
Description: 2-Way F 1.5 OCS Series, Sealed (BK)

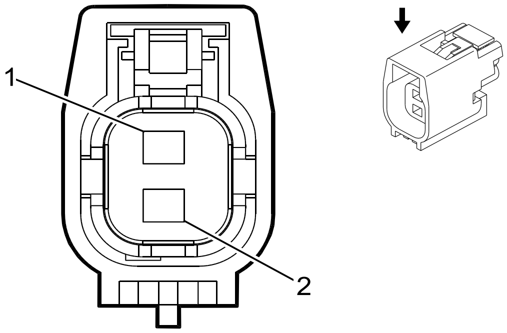
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-14 (GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required
II	Not Required	J-35616-2A (GY)	No Tool Required	Not Required	Not Required	Not Required	Not Required

B5LR Wheel Speed Sensor - Left Rear

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	GY/BK	7127	Wheel Speed Sensor Control Left Rear	II	—
2	0.5	BU	884	Wheel Speed Sensor Signal Left Rear	I	—

B5RF Wheel Speed Sensor - Right Front



2152684

Connector Part Information

Harness Type: Chassis
OEM Connector: 7287-0973-30
Service Connector: 13586115
Description: 2-Way F 1.5 GT Series, Sealed (BK)

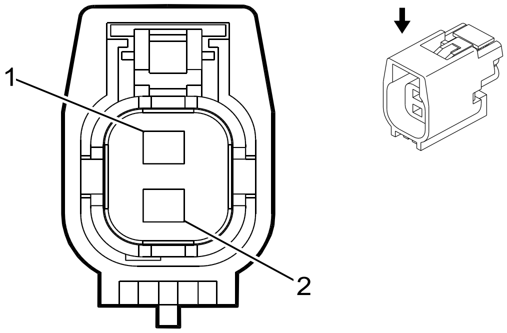
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-14 (GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

B5RF Wheel Speed Sensor - Right Front

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	GY/BN	7065	Wheel Speed Sensor Control Right Front	I	—
2	0.5	YE	872	Wheel Speed Sensor Signal Right Front	I	—

B5RR Wheel Speed Sensor - Right Rear



2152684

Connector Part Information

Harness Type: Chassis
OEM Connector: 7287-0973-30
Service Connector: 13586115
Description: 2-Way F 1.5 GT Series, Sealed (BK)

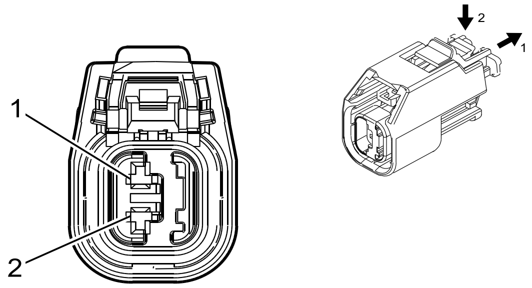
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-14 (GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

B5RR Wheel Speed Sensor - Right Rear

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	GY/YE	7128	Wheel Speed Sensor Control Right Rear	I	—
2	0.5	VT	882	Wheel Speed Sensor Signal Right Rear	I	—

B5RR Wheel Speed Sensor - Right Rear



4889830

Connector Part Information

Harness Type: Chassis
OEM Connector: 33164011
Service Connector: 13586115
Description: 2-Way F 1.5 OCS Series, Sealed (BK)

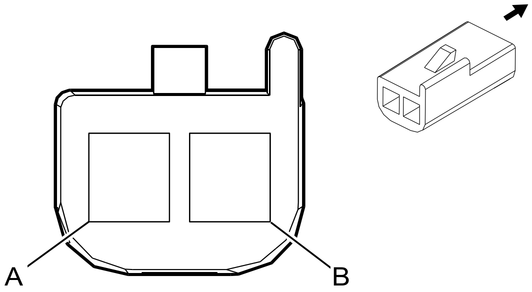
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-14 (GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required
II	Not Required	J-35616-2A (GY)	No Tool Required	Not Required	Not Required	Not Required	Not Required

B5RR Wheel Speed Sensor - Right Rear

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	GY/YE	7128	Wheel Speed Sensor Control Right Rear	I	—
2	0.5	VT	882	Wheel Speed Sensor Signal Right Rear	II	—

B7B Air Temperature Sensor - Duct Lower



82383

Connector Part Information

Harness Type: HVAC
OEM Connector: 12047662
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way F 150 Metri-Pack Series (BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	-	No Tool Required	Not Required	Not Required	Not Required	Not Required

B7B Air Temperature Sensor - Duct Lower

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	20	BN	518	Lower Left Air Temperature Sensor Signal	I	—
B	22	BK/YE	407	Sensor Low Reference	I	—

B7F Air Temperature Sensor - Duct Upper

—

Connector Part Information

Harness Type: HVAC
OEM Connector: Not Available
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way

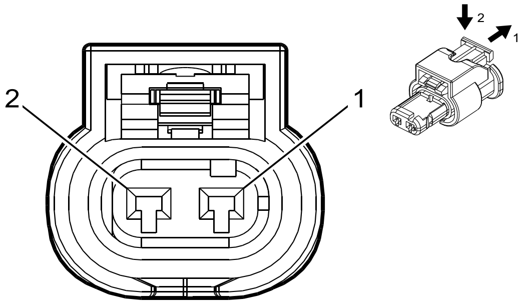
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	Not Available	No Tool Required	Not Required	Not Required	Not Required	Not Required

B7F Air Temperature Sensor - Duct Upper

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	—	BN	516	Upper Left Air Temperature Sensor Signal	I	—
B	—	BK/YE	407	Sensor Low Reference	I	—

B9 Ambient Air Temperature Sensor



2698576

Connector Part Information

Harness Type: Front Body
OEM Connector: 13580179
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way F 1.2 MCP Series, Sealed (BK)

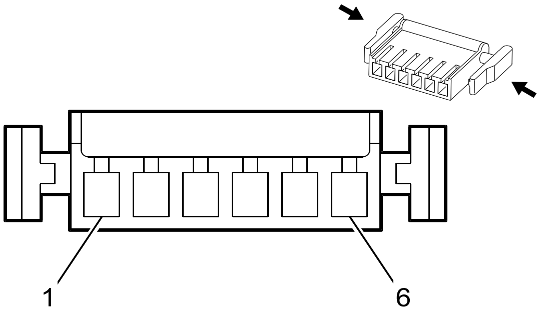
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	Not Available	No Tool Required	Not Required	Not Required	Not Required	Not Required

B9 Ambient Air Temperature Sensor

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	BU/GY	636	Outside Ambient Air Temperature Sensor Signal	I	—
2	0.5	BK/BU	61	Outside Ambient Temperature Sensor Low Reference	I	—

B10B Ambient Light/Sunload Sensor



2173602

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 13726957
Service Connector: 13576539
Description: 6-Way F 0.64 Micro-Quadlock Series (BK)

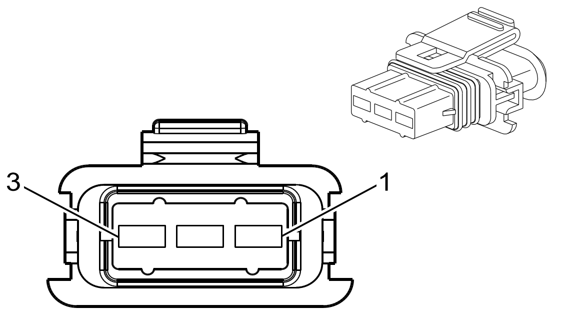
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-64B (LT BU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

B10B Ambient Light/Sunload Sensor

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	GY	728	Security Indicator Control	I	—
2	—	—	—	Not Occupied	—	—
3	0.35	L-BU/WH	734	Inside Air Temperature Sensor Signal	I	—
4	0.35	YE/VT	1783	Twilight Sentinel Delay Signal	I	—
5	0.35	WH/L-BU	278	Ambient Light Sensor Signal	I	—
6	0.35	BK/YE	1791	Air Temperature Door Control Low Reference	I	—

B14A Transmission Output Shaft Speed Sensor (N8D)



1282881

Connector Part Information

Harness Type: Engine
OEM Connector: 1928403110
Service Connector: 19329746
Description: 3-Way F 2.8 Junior Power Timer Series, Sealed (BK)

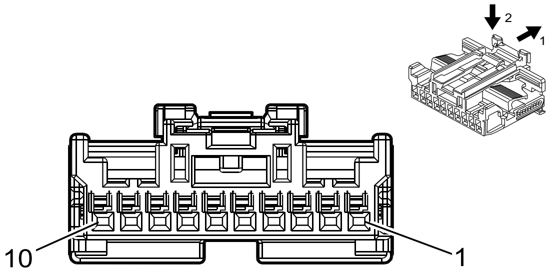
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-35 (VT)	No Tool Required	Not Required	Not Required	Not Required	Not Required

B14A Transmission Output Shaft Speed Sensor (N8D)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	BK/L-GN	822	Vehicle Speed Sensor Low Reference	I	—
2	0.5	VT/WH	821	Vehicle Speed Sensor Signal	I	—
3	0.5	L-BU/RD	1688	5V Reference	I	—

B15 Transmission Internal Mode Switch (M5T)



4051038

Connector Part Information

Harness Type: Transmission Control
OEM Connector: 2138504-1
Service Connector: Service by Harness - See Part Catalog
Description: 10-Way F 0.64 Generation Y Series (BN)

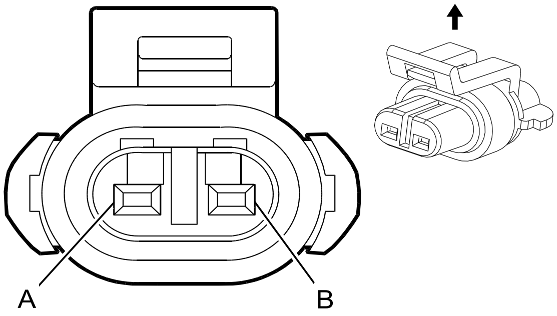
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-64B (LT BU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

B15 Transmission Internal Mode Switch (M5T)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	WH/GY	1786	Transmission Park/Neutral Signal 1	I	—
2	0.5	BK/GY	3927	IMS Mode Switch Low Reference	I	—
3	—	—	—	Not Occupied	—	—
4	0.5	YE/BU	4171	Transmission Position Sensor A 9V Reference	I	—
5	0.5	VT/WH	5981	PRNDL A Signal	I	—
6	0.5	WH/BK	5983	PRNDL C Signal	I	—
7	0.5	GY/YE	4169	PRNDL S Signal	I	—
8	0.5	GY/BN	5982	PRNDL B Signal	I	—
9	0.5	GY/WH	4168	PRNDL P Signal	I	—
10	0.5	YE/GN	4170	Transmission Position Sensor B 9V Reference	I	—

B16 Backup Lamp Switch



2352552

Connector Part Information

Harness Type: Engine
OEM Connector: 12158214
Service Connector: 13580106
Description: 2-Way F 150 Metri-Pack Series, Sealed (BK)

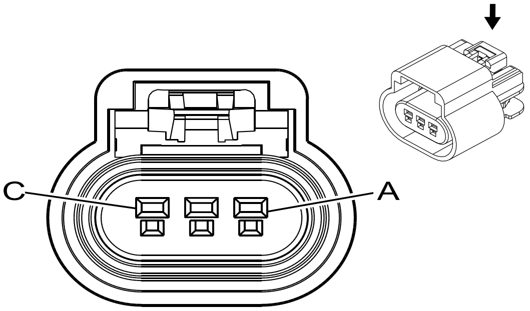
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	-	No Tool Required	Not Required	Not Required	Not Required	Not Required

B16 Backup Lamp Switch

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.5	L-GN/WH	5007	Reverse Switch Signal	I	—
B	0.5	BK/WH	451	Signal Ground	I	—

B18 Battery Current Sensor



646415

Connector Part Information

Harness Type: Body
OEM Connector: 13519047
Service Connector: -
Description: 3-Way F 150 GT Series, Sealed (BK)

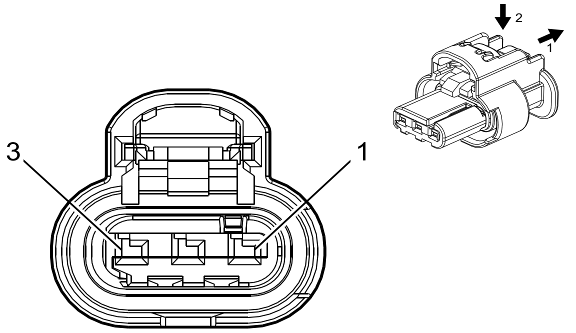
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-14 (GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

B18 Battery Current Sensor

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.5	L-BU/VT	5076	Current Sensor Control	I	—
B	0.5	BK/VT	5077	Current Sensor Low Reference	I	—
C	0.5	WH/YE	5075	Current Sensor Signal	I	—

B19B Brake Booster Vacuum Sensor



Connector Part Information

Harness Type: Chassis
OEM Connector: 1-2296695-1
Service Connector: 19366844
Description: 3-Way F 1.2 MCON-CB Series, Sealed (BK)

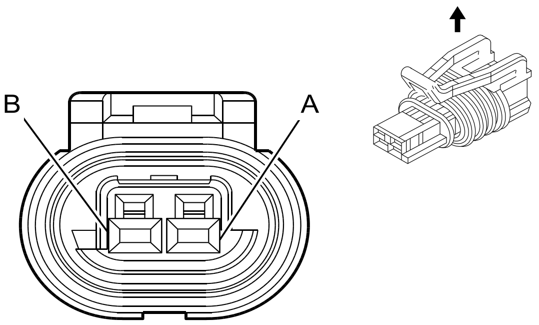
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-16 (LT GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

B19B Brake Booster Vacuum Sensor

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	YE/VT	6030	Brake Vacuum Sensor Signal	I	—
2	0.5	BK/YE	6032	Brake Vacuum Sensor Low Reference	I	—
3	0.5	YE/RD	6031	Brake Vacuum Sensor 5V Reference	I	—

B20 Brake Fluid Level Switch



1538760

Connector Part Information

Harness Type: Chassis
OEM Connector: 15449028
Service Connector: 88987993
Description: 2-Way F 150 GT Series, Sealed (BK)

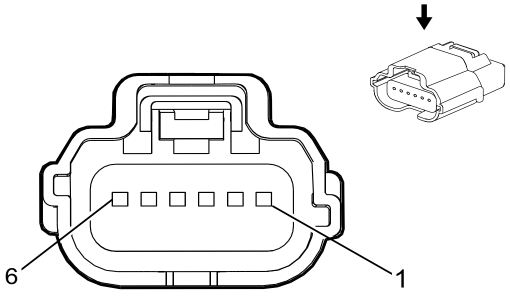
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-14 (GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

B20 Brake Fluid Level Switch

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.5	BK/WH	551	Signal Ground	I	—
B	0.5	L-GN/GY	333	Brake Fluid Level Sensor Signal	I	—

B22 Brake Pedal Position Sensor (MYB)



3270302

Connector Part Information

Harness Type: Body
OEM Connector: 31404-6810
Service Connector: 19304011
Description: 6-Way F 64 Series, Sealed (NA)

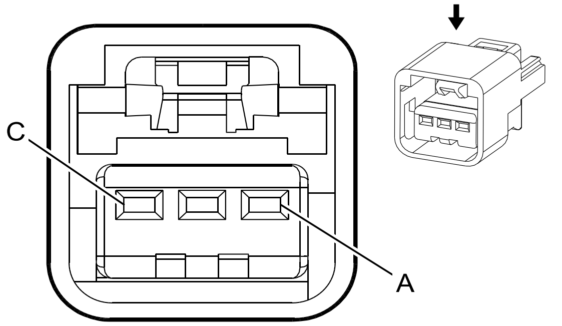
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-64B (LT BU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

B22 Brake Pedal Position Sensor (MYB)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	BK/BN	5360	Brake Apply Sensor Low Reference	I	—
2	0.5	WH	5359	Brake Apply Sensor Control	I	—
3	0.5	L-BU/YE	5361	Brake Apply Sensor Signal	I	—
4	0.5	WH/L-GN	5380	Brake Position Sensor Signal	I	—
5	0.5	BK/YE	5382	Brake Position Sensor Low Reference	I	—
6	0.5	WH/RD	5381	Brake Position Sensor 5V Reference	I	—

B22 Brake Pedal Position Sensor (N8D)



1243663

Connector Part Information

Harness Type: Body
OEM Connector: 15332132
Service Connector: 88953364
Description: 3-Way F 150 GT Series (BK)

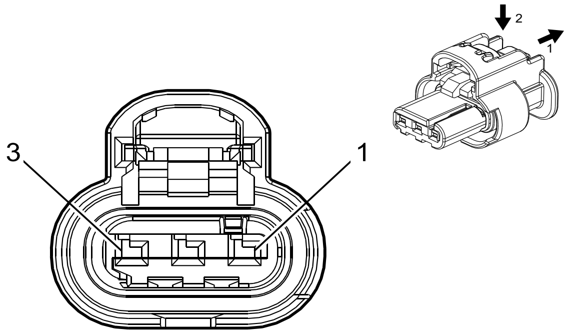
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-14 (GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

B22 Brake Pedal Position Sensor (N8D)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.5	WH	5359	Brake Apply Sensor Control	I	—
B	0.5	L-BU/YE	5361	Brake Apply Sensor Signal	I	—
C	0.5	BK/BN	5360	Brake Apply Sensor Low Reference	I	—

B23 Camshaft Position Sensor



4581126

Connector Part Information

Harness Type: Engine
OEM Connector: 1-2296695-1
Service Connector: 19366844
Description: 3-Way F 1.2 MCON-CB Series, Sealed (BK)

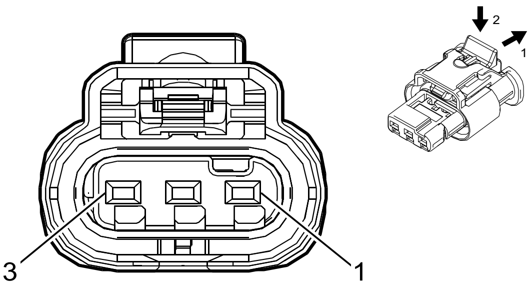
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-16 (LT GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

B23 Camshaft Position Sensor

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	GY/L-BU	5300	Camshaft Position Intake Sensor Control 1	I	—
2	0.5	BK/L-GN	5301	Camshaft Position Intake Sensor Low Reference 1	I	—
3	0.5	YE/VT	5275	Camshaft Position Intake Sensor 1	I	—

B23A Camshaft Position Sensor - Bank 1 Exhaust



4256077

Connector Part Information

Harness Type: Engine
OEM Connector: 4-2272004-1
Service Connector: 19352065
Description: 3-Way F 1.2 MCP Series, Sealed (BN)

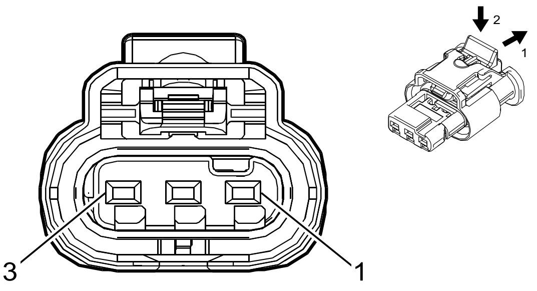
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-16 (LT GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

B23A Camshaft Position Sensor - Bank 1 Exhaust

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	GY/YE	5297	Camshaft Position Exhaust Sensor Control 1	I	—
2	0.5	BK/GY	5296	Camshaft Position Exhaust Sensor Low Reference 1	I	—
3	0.5	VT/BK	5273	Camshaft Position Exhaust Sensor 1	I	—

B23B Camshaft Position Sensor - Bank 1 Intake



4256077

Connector Part Information

Harness Type: Engine
OEM Connector: 4-2272004-1
Service Connector: 19352065
Description: 3-Way F 1.2 MCP Series, Sealed (BN)

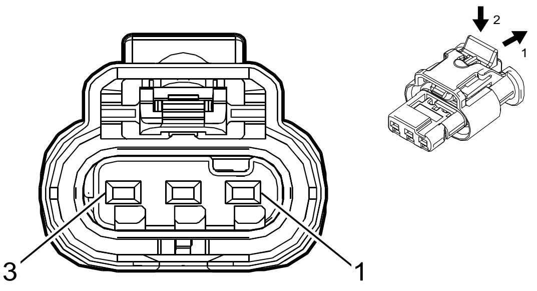
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-16 (LT GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

B23B Camshaft Position Sensor - Bank 1 Intake

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	GY/L-BU	5300	Camshaft Position Intake Sensor Control 1	I	—
2	0.5	BK/L-GN	5301	Camshaft Position Intake Sensor Low Reference 1	I	—
3	0.5	YE/VT	5275	Camshaft Position Intake Sensor 1	I	—

B23C Camshaft Position Sensor - Bank 2 Exhaust



4256077

Connector Part Information

Harness Type: Engine
OEM Connector: 4-2272004-1
Service Connector: 19352065
Description: 3-Way F 1.2 MCP Series, Sealed (BN)

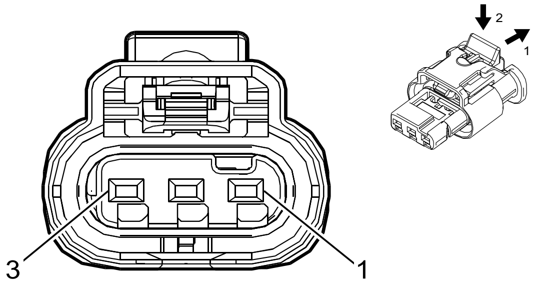
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-16 (LT GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

B23C Camshaft Position Sensor - Bank 2 Exhaust

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	L-GN/BN	5298	Camshaft Position Exhaust Sensor Control 2	I	—
2	0.5	BK/BN	5299	Camshaft Position Exhaust Sensor Low Reference 2	I	—
3	0.5	VT/L-BU	5274	Camshaft Position Exhaust Sensor 2	I	—

B23D Camshaft Position Sensor - Bank 2 Intake



4256077

Connector Part Information

Harness Type: Engine
OEM Connector: 4-2272004-1
Service Connector: 19352065
Description: 3-Way F 1.2 MCP Series, Sealed (BN)

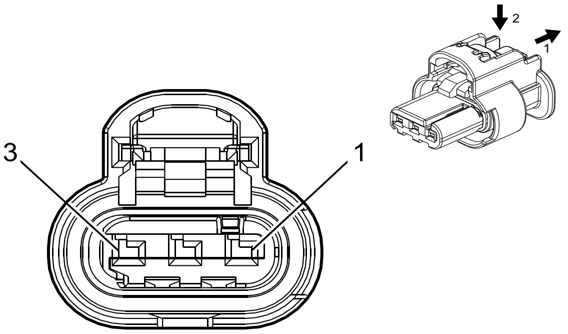
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-16 (LT GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

B23D Camshaft Position Sensor - Bank 2 Intake

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	WH/L-BU	5302	Camshaft Position Intake Sensor Control 2	I	—
2	0.5	BK/VT	5303	Camshaft Position Intake Sensor Low Reference 2	I	—
3	0.5	YE	5276	Camshaft Position Intake Sensor 2	I	—

B23E Camshaft Position Sensor - Exhaust



4581126

Connector Part Information

Harness Type: Engine
OEM Connector: 1-2296695-1
Service Connector: 19366844
Description: 3-Way F 1.2 MCON-CB Series, Sealed (BK)

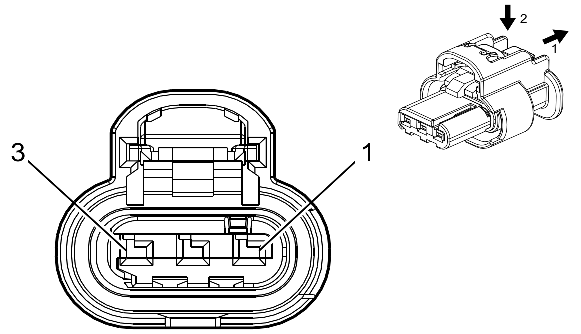
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-16 (LT GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

B23E Camshaft Position Sensor - Exhaust

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	GY/YE	5297	Camshaft Position Exhaust Sensor Control 1	I	—
2	0.5	BK/GY	5296	Camshaft Position Exhaust Sensor Low Reference 1	I	—
3	0.5	VT/BK	5273	Camshaft Position Exhaust Sensor 1	I	—

B23F Camshaft Position Sensor - Intake



Connector Part Information

Harness Type: Engine
OEM Connector: 1-2296695-1
Service Connector: 19366844
Description: 3-Way F 1.2 MCON-CB Series, Sealed (BK)

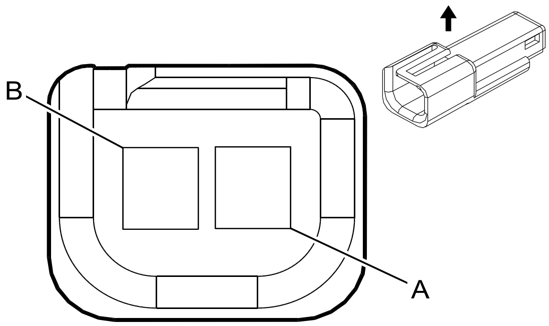
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-16 (LT GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

B23F Camshaft Position Sensor - Intake

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	GY/L-BU	5300	Camshaft Position Intake Sensor Control 1	I	—
2	0.5	BK/L-GN	5301	Camshaft Position Intake Sensor Low Reference 1	I	—
3	0.5	YE/VT	5275	Camshaft Position Intake Sensor 1	I	—

B24LF Mobile Telephone Microphone - Left Front



35441

Connector Part Information

Harness Type: Headliner
OEM Connector: 12047663
Service Connector: 13584278
Description: 2-Way M 150 Metri-Pack Series (BK)

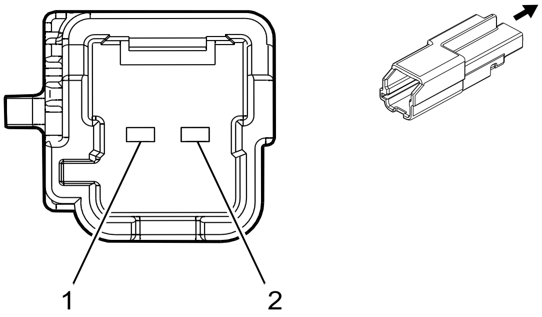
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-3 (GY)	No Tool Required	Not Required	Not Required	Not Required	Not Required

B24LF Mobile Telephone Microphone - Left Front

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.35	BK/BN	654	Cellular Telephone Microphone Low Reference	I	—
B	0.35	L-BU	655	Cellular Telephone Microphone Signal	I	—

B24RF Mobile Telephone Microphone - Right Front



4116495

Connector Part Information

Harness Type: Headliner
OEM Connector: 6098-7679
Service Connector: 19332377
Description: 2-Way M 1.2 Series (GY)

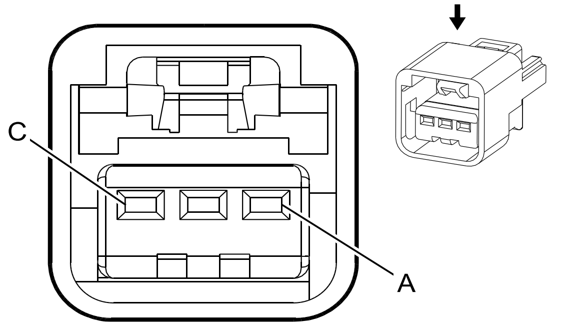
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-17 (LT GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

B24RF Mobile Telephone Microphone - Right Front

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	L-BU/BK	7044	Microphone (-) Low Reference	I	—
2	0.35	VT/YE	7043	Microphone (+) Signal	I	—

B25B Clutch Pedal Position Sensor



1243663

Connector Part Information

Harness Type: Body
OEM Connector: 15332132
Service Connector: 88953364
Description: 3-Way F 150 GT Series (BK)

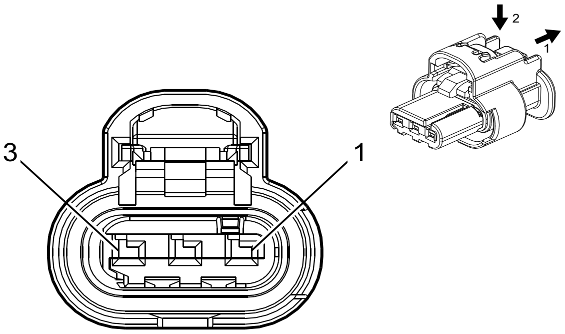
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-14 (GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

B25B Clutch Pedal Position Sensor

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.5	GY/RD	6109	Clutch Apply Sensor 5V Reference	I	—
B	0.5	YE	6111	Clutch Apply Sensor Signal	I	—
C	0.5	BK/GY	6110	Clutch Apply Sensor Low Reference	I	—

B26 Crankshaft Position Sensor (LCV/LWN)



4581126

Connector Part Information

Harness Type: Engine
OEM Connector: 1-2296695-1
Service Connector: 19366844
Description: 3-Way F 1.2 MCON-CB Series, Sealed (BK)

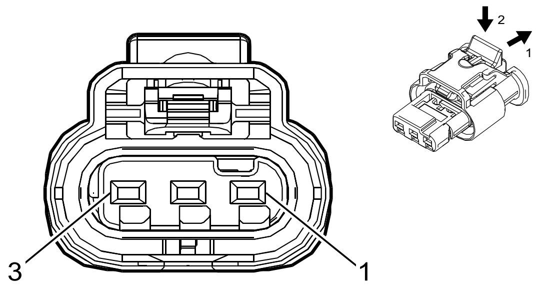
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-16 (LT GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

B26 Crankshaft Position Sensor (LCV/LWN)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	VT/L-BU	6270	Crankshaft 60X Sensor 5V Reference	I	—
2	0.5	BK/VT	6272	Crankshaft 60X Sensor Low Reference	I	—
3	0.5	L-GN	6271	Crankshaft 60X Sensor Signal	I	—

B26 Crankshaft Position Sensor (LGZ)



4256077

Connector Part Information

Harness Type: Engine
OEM Connector: 4-2272004-1
Service Connector: 19352065
Description: 3-Way F 1.2 MCP Series, Sealed (BN)

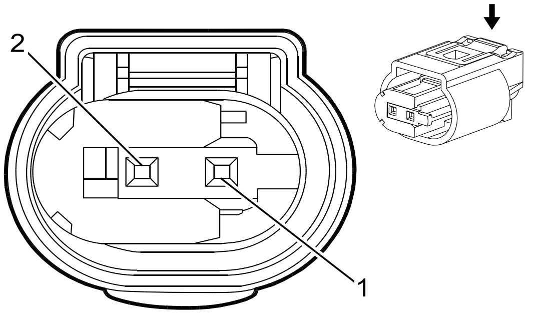
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-16 (LT GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

B26 Crankshaft Position Sensor (LGZ)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	VT/L-BU	6270	Crankshaft 60X Sensor 5V Reference	I	—
2	0.5	BK/VT	6272	Crankshaft 60X Sensor Low Reference	I	—
3	0.5	L-GN	6271	Crankshaft 60X Sensor Signal	I	—

B34 Engine Coolant Temperature Sensor (LCV)



1869767

Connector Part Information

Harness Type: Engine
OEM Connector: 1-967644-1
Service Connector: 13576533
Description: 2-Way F 0.64 Micro-Quadlock Series, Sealed (BK)

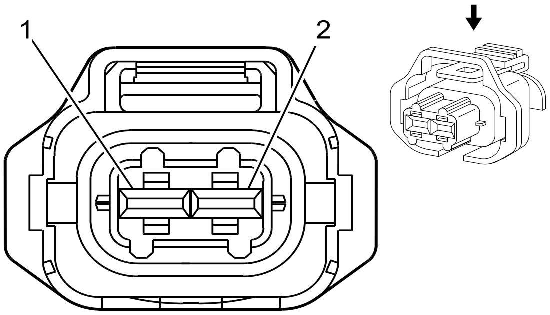
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-64B (LT BU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

B34 Engine Coolant Temperature Sensor (LCV)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	L-BU	410	Engine Coolant Temperature Sensor Signal	I	—
2	0.5	BK/BN	2761	Coolant Temperature Sensor Low Reference	I	—

B34 Engine Coolant Temperature Sensor (LWN)



1403270

Connector Part Information

Harness Type: Engine
OEM Connector: 1928403698
Service Connector: -
Description: 2-Way F 2.8 Junior Power Timer Series, Sealed (BK)

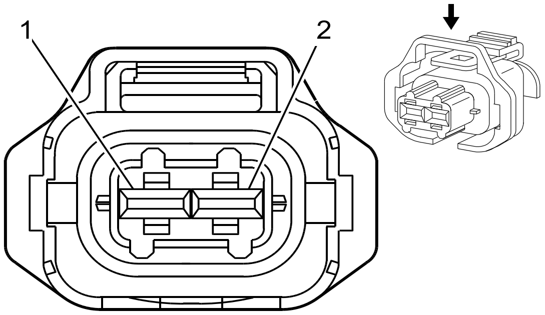
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-35 (VT)	No Tool Required	Not Required	Not Required	Not Required	Not Required

B34 Engine Coolant Temperature Sensor (LWN)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	L-BU	410	Engine Coolant Temperature Sensor Signal	I	—
2	0.5	BK/BN	2761	Coolant Temperature Sensor Low Reference	I	—

B35 Engine Oil Level Switch (LCV)



784092

Connector Part Information

Harness Type: Engine
OEM Connector: 1928403874
Service Connector: 88988963
Description: 2-Way F 2.8 Kompakt Series, Sealed (BK)

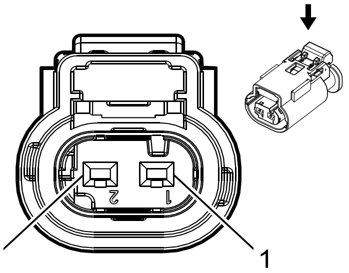
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-35 (VT)	No Tool Required	Not Required	Not Required	Not Required	Not Required

B35 Engine Oil Level Switch (LCV)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	BK/WH	1451	Signal Ground	I	—
2	0.5	BN/L-GN	1174	Oil Level Switch Signal	I	—

B35 Engine Oil Level Switch (LGZ)



2717066

Connector Part Information

Harness Type: Engine
OEM Connector: 10010337
Service Connector: 13587326
Description: 2-Way F 1.2 Multilock Series, Sealed (BK)

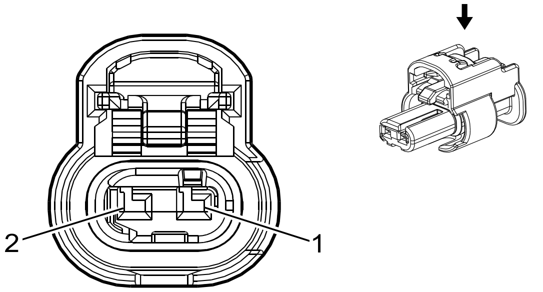
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-16 (LT GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

B35 Engine Oil Level Switch (LGZ)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	BK	650	Ground	I	—
2	0.5	BN/L-GN	1174	Oil Level Switch Signal	I	—

B35 Engine Oil Level Switch (LWN)



4649903

Connector Part Information

Harness Type: Engine
OEM Connector: 1-2296694-1
Service Connector: -
Description: 2-Way F 1.2 MCON Series, Sealed (BK)

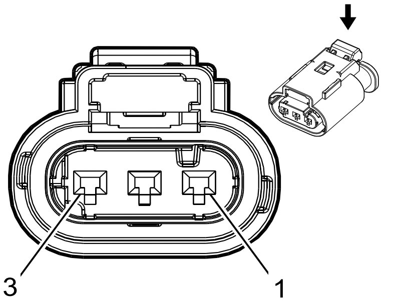
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-16 (LT GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

B35 Engine Oil Level Switch (LWN)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	BN/L-GN	1174	Oil Level Switch Signal	I	—
2	0.75	BK/WH	151	Signal Ground	I	—

B37B Engine Oil Pressure Sensor (LCV)



2717069

Connector Part Information

Harness Type: Engine
OEM Connector: 10010341
Service Connector: 19299690
Description: 3-Way F 1.2 Multilock Series, Sealed (BK)

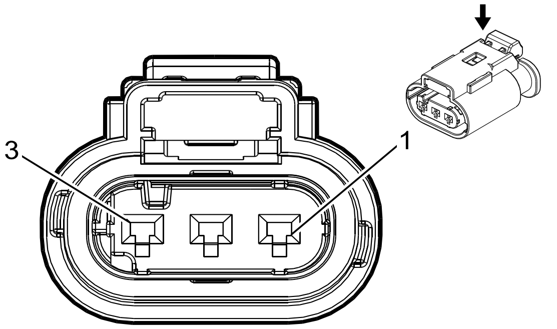
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-16 (LT GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

B37B Engine Oil Pressure Sensor (LCV)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	YE/BN	331	Oil Pressure Sensor Signal	I	—
2	0.5	BK/VT	2755	Oil Pressure Sensor Low Reference	I	—
3	0.5	WH/RD	2705	Oil Pressure Sensor 5V Reference	I	—

B37B Engine Oil Pressure Sensor (LGZ/LWN)



3240107

Connector Part Information

Harness Type: Engine
OEM Connector: 10010344
Service Connector: 19301717
Description: 3-Way F 1.2 Multilock Series, Sealed (BK)

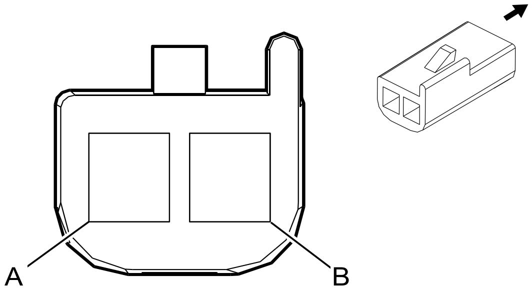
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-16 (LT GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

B37B Engine Oil Pressure Sensor (LGZ/LWN)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	YE/BN	331	Oil Pressure Sensor Signal	I	—
2	0.5	BK/VT	2755	Oil Pressure Sensor Low Reference	I	—
3	0.5	WH/RD	2705	Oil Pressure Sensor 5V Reference	I	—

B39 A/C Evaporator Temperature Sensor



82383

Connector Part Information

Harness Type: HVAC
OEM Connector: 12047662
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way F 150 Metri-Pack Series (BK)

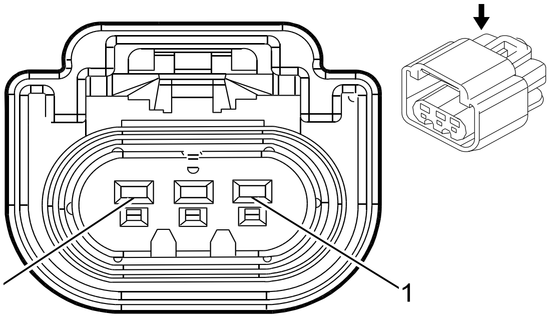
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	-	No Tool Required	Not Required	Not Required	Not Required	Not Required

B39 A/C Evaporator Temperature Sensor

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	22	GY	6137	EVAP Core Temperature Sensor Signal	I	—
B	22	BK/YE	407	Sensor Low Reference	I	—

B47 Fuel Pressure Sensor



1860942

Connector Part Information

Harness Type: Chassis
OEM Connector: 13511131
Service Connector: 19168035
Description: 3-Way F 150 GT Series, Sealed (BK)

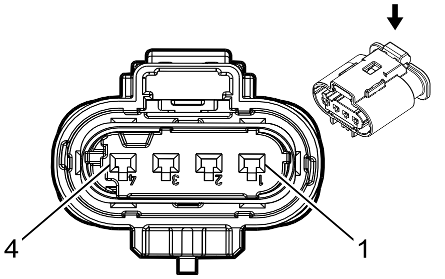
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-14 (GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

B47 Fuel Pressure Sensor

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	L-BU/WH	7446	Fuel Line Pressure Sensor Signal	I	—
2	0.5	BK/YE	7447	Fuel Line Pressure Sensor Low Reference	I	—
3	0.5	BN/RD	7445	Fuel Line Pressure Sensor 5V Reference	I	—

B47B Fuel Rail Pressure Sensor



2717079

Connector Part Information

Harness Type: Engine
OEM Connector: 10010346
Service Connector: 13587299
Description: 4-Way F 1.2 Multilock Series, Sealed (BK)

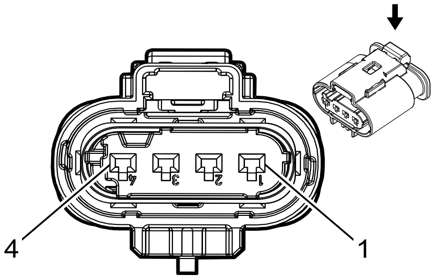
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-16 (LT GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

B47B Fuel Rail Pressure Sensor

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	BN/RD	2917	Fuel Rail Pressure Sensor 5V Reference	I	—
2	0.5	BN/YE	2161	Fuel Rail Pressure Sensor 2 Signal	I	—
3	0.5	BK/L-GN	2919	Fuel Rail Pressure Sensor Low Reference	I	—
4	0.5	L-BU/WH	2918	Fuel Rail Pressure Sensor Signal	I	—

B52A Heated Oxygen Sensor 1 (LCV)



2717079

Connector Part Information

Harness Type: Engine
OEM Connector: 10010346
Service Connector: 13587299
Description: 4-Way F 1.2 Multilock Series, Sealed (BK)

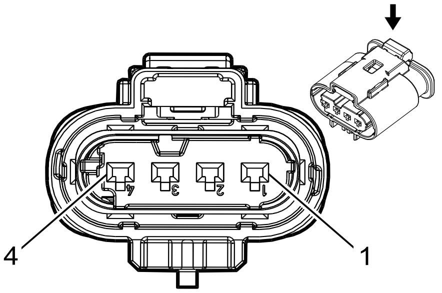
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-16 (LT GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

B52A Heated Oxygen Sensor 1 (LCV)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	GY/WH	3113	Heated Oxygen Sensor Heater Low Control Bank 1 Sensor 1	I	—
2	0.5	VT/L-BU	5293	Powertrain Main Relay Fused Supply 4	I	—
3	0.5	WH/BK	3111	Heated Oxygen Sensor Low Signal Bank 1 Sensor 1	I	—
4	0.5	VT/GY	3110	Heated Oxygen Sensor High Signal Bank 1 Sensor 1	I	—

B52B Heated Oxygen Sensor 2



2717096

Connector Part Information

Harness Type: Engine
OEM Connector: 10010347
Service Connector: 13587298
Description: 4-Way F 1.2 Multilock Series, Sealed (L-GY)

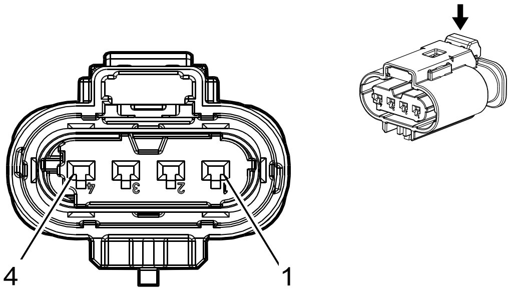
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-16 (LT GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

B52B Heated Oxygen Sensor 2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	GY/WH	3122	Heated Oxygen Sensor Heater Low Control Bank 1 Sensor 2	I	—
2	0.5	VT/L-BU	5294	Powertrain Main Relay Fused Supply 5	I	—
3	0.5	WH/YE	3121	Heated Oxygen Sensor Low Signal Bank 1 Sensor 2	I	—
4	0.5	VT/L-BU	3120	Heated Oxygen Sensor High Signal Bank 1 Sensor 2	I	—

B52C Heated Oxygen Sensor Bank 1 Sensor 1 (LGZ)



Connector Part Information

Harness Type: Engine
OEM Connector: 10021266
Service Connector: 19330920
Description: 4-Way F 1.2 Multilock Series, Sealed (GY)

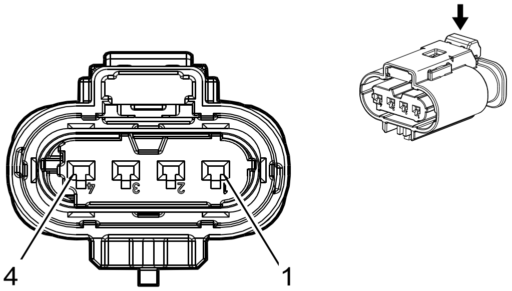
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-16 (LT GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

B52C Heated Oxygen Sensor Bank 1 Sensor 1 (LGZ)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	GY/WH	3113	Heated Oxygen Sensor Heater Low Control Bank 1 Sensor 1	I	—
2	0.5	VT/L-BU	5293	Powertrain Main Relay Fused Supply 4	I	—
3	0.5	WH/BK	3111	Heated Oxygen Sensor Low Signal Bank 1 Sensor 1	I	—
4	0.5	VT/GY	3110	Heated Oxygen Sensor High Signal Bank 1 Sensor 1	I	—

B52D Heated Oxygen Sensor - Bank 1 Sensor 2



4036370

Connector Part Information

Harness Type: Engine
OEM Connector: 10021266
Service Connector: 19330920
Description: 4-Way F 1.2 Multilock Series, Sealed (GY)

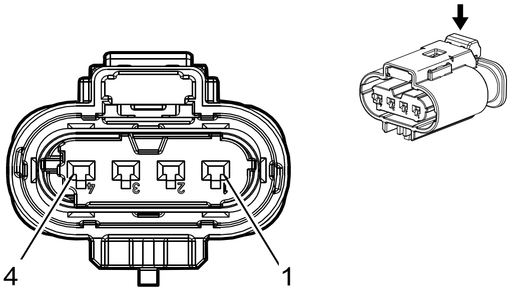
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-16 (LT GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

B52D Heated Oxygen Sensor - Bank 1 Sensor 2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	GY/WH	3122	Heated Oxygen Sensor Heater Low Control Bank 1 Sensor 2	I	—
2	0.5	VT/L-BU	5294	Powertrain Main Relay Fused Supply 5	I	—
3	0.5	WH/YE	3121	Heated Oxygen Sensor Low Signal Bank 1 Sensor 2	I	—
4	0.5	VT/L-BU	3120	Heated Oxygen Sensor High Signal Bank 1 Sensor 2	I	—

B52E Heated Oxygen Sensor - Bank 2 Sensor 1



4036370

Connector Part Information

Harness Type: Engine
OEM Connector: 10021266
Service Connector: 19330920
Description: 4-Way F 1.2 Multilock Series, Sealed (GY)

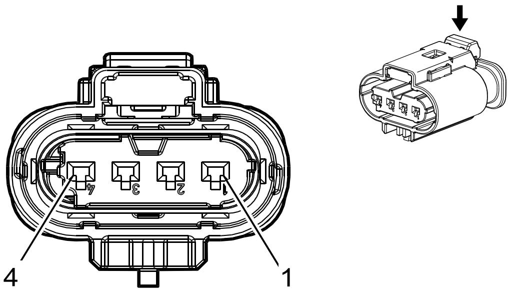
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-16 (LT GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

B52E Heated Oxygen Sensor - Bank 2 Sensor 1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	GN/YE	3212	Heated Oxygen Sensor Heater Low Control Bank 2 Sensor 1	I	—
2	0.5	VT/BU	5293	Powertrain Main Relay Fused Supply 4	I	—
3	0.5	YE/WH	3211	Heated Oxygen Sensor Low Signal Bank 2 Sensor 1	I	—
4	0.5	VT/WH	3210	Heated Oxygen Sensor High Signal Bank 2 Sensor 1	I	—

B52F Heated Oxygen Sensor - Bank 2 Sensor 2



4036370

Connector Part Information

Harness Type: Engine
OEM Connector: 10021266
Service Connector: 19330920
Description: 4-Way F 1.2 Multilock Series, Sealed (GY)

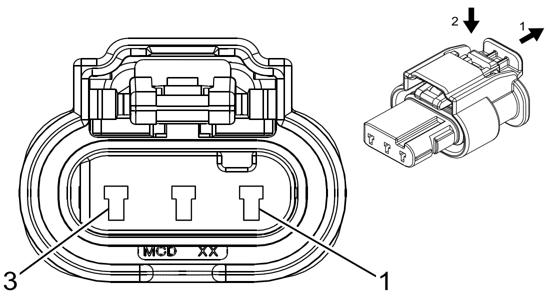
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-16 (LT GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

B52F Heated Oxygen Sensor - Bank 2 Sensor 2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	WH/BN	3223	Heated Oxygen Sensor Heater Low Control Bank 2 Sensor 2	I	LGZ
2	0.5	VT/BU	5294	Powertrain Main Relay Fused Supply 5	I	LGZ
3	0.5	YE/BU	3221	Heated Oxygen Sensor Low Signal Bank 2 Sensor 2	I	LGZ
4	0.5	VT/GN	3220	Heated Oxygen Sensor High Signal Bank 2 Sensor 2	I	LGZ

B55 Engine Hood Switch (ULV)



4421568

Connector Part Information

Harness Type: Forward Lamp
OEM Connector: 34900-3120
Service Connector: 19368220
Description: 3-Way F 1.2 MCON-LL Series, Sealed (BK)

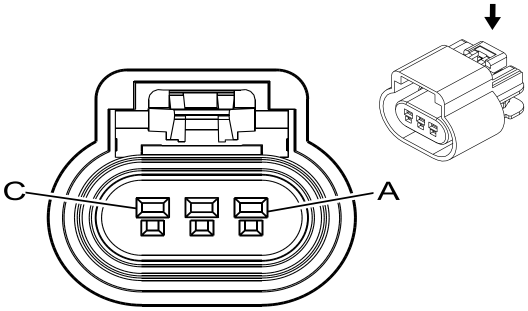
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-16 (LT GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

B55 Engine Hood Switch (ULV)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	—	—	—	Not Occupied	—	—
2	0.5	BN/L-GN	109	Hood Ajar Switch Signal	I	—
3	0.75	BK	1250	Ground	I	—

B55 Engine Hood Switch (-ULV)



646415

Connector Part Information

Harness Type: Forward Lamp
OEM Connector: 13519047
Service Connector: -
Description: 3-Way F 150 GT Series, Sealed (BK)

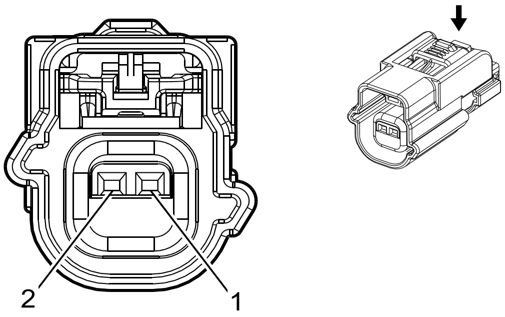
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-14 (GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

B55 Engine Hood Switch (-ULV)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	—	—	—	Not Occupied	—	—
B	0.5	BN/L-GN	109	Hood Ajar Switch Signal	I	—
C	0.75	BK	1250	Ground	I	—

B59L Front Impact Sensor - Left



3931604

Connector Part Information

Harness Type: Forward Lamp
OEM Connector: 54390241
Service Connector: 19329742
Description: 2-Way F 0.64 Series, Sealed

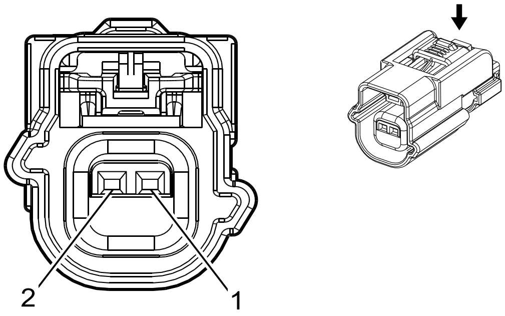
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-64B (LT BU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

B59L Front Impact Sensor - Left

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	OG/YE	354	Left Front Discriminating Sensor Signal	I	—
2	0.5	BK/OG	5045	Left Front Discriminating Sensor Low Reference	I	—

B59R Front Impact Sensor - Right



3931604

Connector Part Information

Harness Type: Forward Lamp
OEM Connector: 54390241
Service Connector: 19329742
Description: 2-Way F 0.64 Series, Sealed

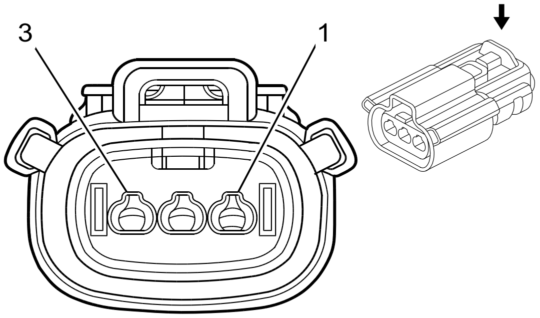
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-64B (LT BU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

B59R Front Impact Sensor - Right

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	OG/L-GN	1409	Right Front Discriminating Sensor Signal	I	—
2	0.5	BK/OG	5600	Right Front Discriminating Sensor Low Reference	I	—

B61P Seat Belt Tension Sensor - Passenger



1862095

Connector Part Information

Harness Type: Passenger Seat Cushion
OEM Connector: 33471-0306
Service Connector: Service by Harness - See Part Catalog
Description: 3-Way F 1.5 Series, Sealed (BK)

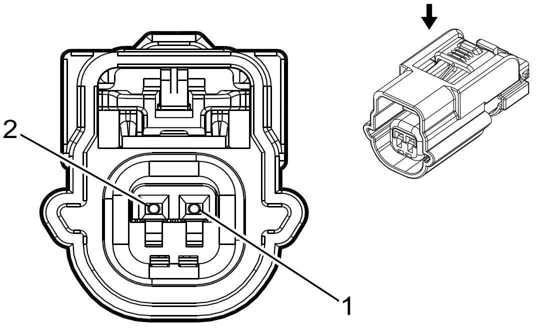
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	Not Available	No Tool Required	Not Required	Not Required	Not Required	Not Required

B61P Seat Belt Tension Sensor - Passenger

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	—	VT/OG	5611	Passenger Seat Belt Tension Sensor Signal	I	—
2	—	BK/WH	2251	Signal Ground	I	—
3	—	BU/RD	5612	Passenger Seat Belt Tension Sensor 5V Reference	I	—

B63LF Side Impact Sensor - Left Front



3556418

Connector Part Information

Harness Type: Driver Door
OEM Connector: 54390240
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way F 0.64 Series, Sealed (L-GY)

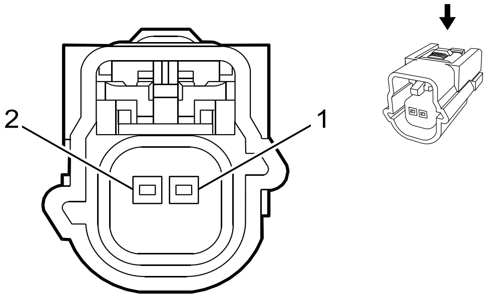
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-64B (LT BU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

B63LF Side Impact Sensor - Left Front

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	OG/L-GN	2132	Left Front Side Impact Sensing Module Signal	I	—
2	0.35	BK/OG	6628	Left Front Side Impact Sensing Module Low Reference	I	—

B63LR Side Impact Sensor - Left Rear



2179777

Connector Part Information

Harness Type: Body
OEM Connector: 54390242
Service Connector: 13585852
Description: 2-Way F 0.64 Series, Sealed (D-GY)

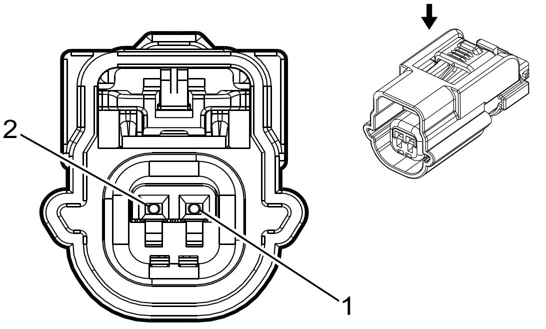
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-64B (LT BU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

B63LR Side Impact Sensor - Left Rear

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	OG/L-BU	6620	Left Middle Side Impact Sensing Module Signal	I	—
2	0.35	BK/OG	6621	Left Middle Side Impact Sensing Module Low Reference	I	—

B63RF Side Impact Sensor - Right Front



3556418

Connector Part Information

Harness Type: Passenger Door
OEM Connector: 54390240
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way F 0.64 Series, Sealed (L-GY)

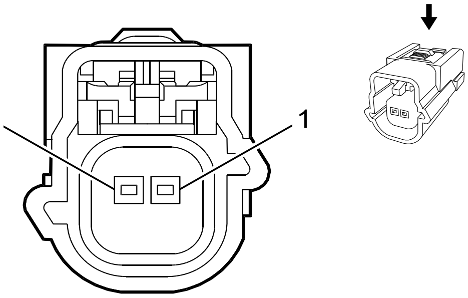
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-64B (LT BU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

B63RF Side Impact Sensor - Right Front

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	BN/OG	2134	Right Front Side Impact Sensing Module Signal	I	—
2	0.35	BK/OG	6629	Right Front Side Impact Sensing Module Low Reference	I	—

B63RR Side Impact Sensor - Right Rear



Connector Part Information

Harness Type: Body
OEM Connector: 54390242
Service Connector: 13585852
Description: 2-Way F 0.64 Series, Sealed (D-GY)

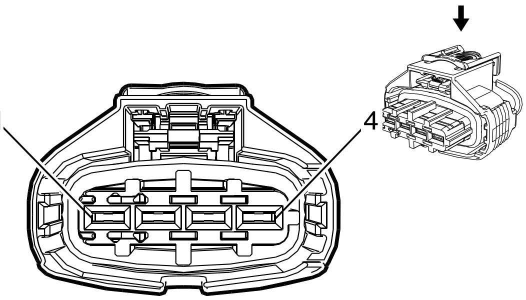
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-64B (LT BU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

B63RR Side Impact Sensor - Right Rear

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	OG/VT	6624	Right Middle Side Impact Sensing Module Signal	I	—
2	0.35	BK/OG	6625	Right Middle Side Impact Sensing Module Low Reference	I	—

B65 Intake Manifold Pressure and Air Temperature Sensor



2487930

Connector Part Information

Harness Type: Engine
OEM Connector: 1928405525
Service Connector: 13584423
Description: 4-Way F 2.8 Series, Sealed (BK)

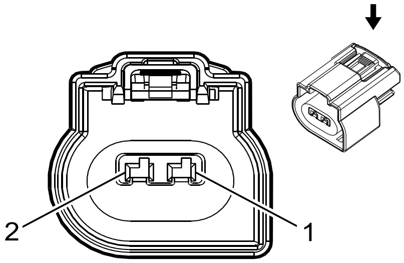
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-35 (VT)	No Tool Required	Not Required	Not Required	Not Required	Not Required

B65 Intake Manifold Pressure and Air Temperature Sensor

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	BK/L-GN	469	Manifold Absolute Pressure Sensor Low Reference	I	—
2	0.5	BN	9348	Induction Air Temperature Sensor 3 Signal	I	—
3	0.5	GY/RD	2704	Manifold Absolute Pressure Sensor 5V Reference	I	—
4	0.5	L-GN/WH	432	Manifold Absolute Pressure Sensor Signal	I	—

B68A Knock Sensor 1



2717073

Connector Part Information

Harness Type: Engine
OEM Connector: 34752-0204
Service Connector: 19301207
Description: 2-Way F 150 MX Series, Sealed (BK)

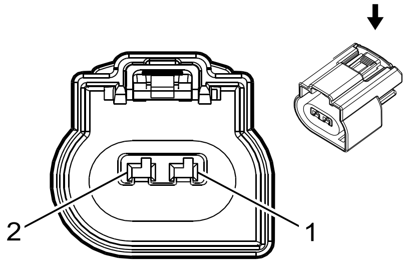
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-2A (GY)	No Tool Required	Not Required	Not Required	Not Required	Not Required

B68A Knock Sensor 1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	VT/GY	496	Knock Sensor Signal 1	I	—
2	0.5	BK/YE	1716	Knock Sensor Low Reference 1	I	—

B68B Knock Sensor 2



2717073

Connector Part Information

Harness Type: Engine
OEM Connector: 34752-0204
Service Connector: 19301207
Description: 2-Way F 150 MX Series, Sealed (BK)

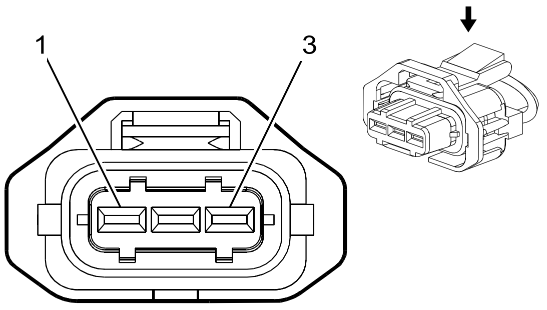
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-2A (GY)	No Tool Required	Not Required	Not Required	Not Required	Not Required

B68B Knock Sensor 2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	WH/GY	1876	Knock Sensor Signal 2	I	—
2	0.5	BK/GY	2303	Knock Sensor Low Reference 2	I	—

B74 Manifold Absolute Pressure Sensor (LCV)



1331443

Connector Part Information

Harness Type: Engine
OEM Connector: 1928403966
Service Connector: 13585850
Description: 3-Way F 2.8 Series, Sealed (BK)

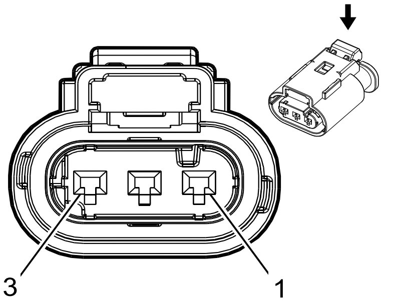
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-35 (VT)	No Tool Required	Not Required	Not Required	Not Required	Not Required

B74 Manifold Absolute Pressure Sensor (LCV)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	GY/RD	2704	Manifold Absolute Pressure Sensor 5V Reference	I	—
2	0.5	BK/L-GN	469	Manifold Absolute Pressure Sensor Low Reference	I	—
3	0.5	L-GN/WH	432	Manifold Absolute Pressure Sensor Signal	I	—

B74 Manifold Absolute Pressure Sensor (LGZ)



2717069

Connector Part Information

Harness Type: Engine
OEM Connector: 10010341
Service Connector: 19299690
Description: 3-Way F 1.2 Multilock Series, Sealed (BK)

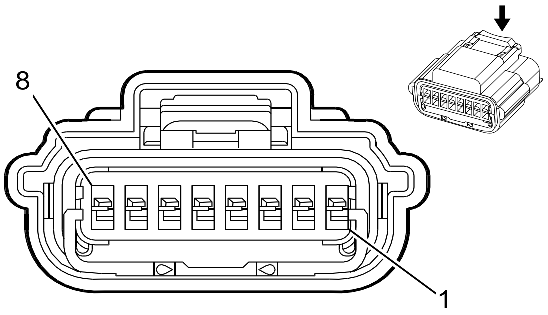
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-16 (LT GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

B74 Manifold Absolute Pressure Sensor (LGZ)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	GY/RD	2704	Manifold Absolute Pressure Sensor 5V Reference	I	—
2	0.5	BK/L-GN	469	Manifold Absolute Pressure Sensor Low Reference	I	—
3	0.5	L-GN/WH	432	Manifold Absolute Pressure Sensor Signal	I	—

B75C Multifunction Intake Air Sensor



2581486

Connector Part Information

Harness Type: Engine
OEM Connector: ATSSPB-C08C-1AK
Service Connector: 13583440
Description: 8-Way F 0.64 Series, Sealed (BK)

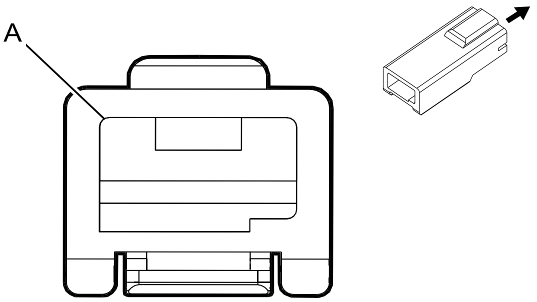
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-64B (LT BU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

B75C Multifunction Intake Air Sensor

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	WH/L-BU	6289	Induction Air Temperature Sensor Signal	I	—
2	0.5	WH/RD	3201	Throttle Inlet Absolute Pressure Sensor 5V Reference	I	—
3	0.5	BK/BN	2761	Coolant Temperature Sensor Low Reference	I	LCV
	0.5	BK/VT	2760	Intake Air Temperature Sensor Low Reference	I	LGZ
4	0.5	YE/WH	3200	Throttle Inlet Absolute Pressure Sensor Signal	I	—
5	0.5	VT/L-BU	5294	Powertrain Main Relay Fused Supply 5	I	—
6	0.5	L-GN/WH	492	Mass Air Flow Sensor Signal	I	—
7	0.5	BK/WH	1451	Signal Ground	I	LCV
	0.5	BK/WH	151	Signal Ground	I	LGZ
	0.75	BK/WH	151	Signal Ground	I	LWN
8	0.5	BN/GY	4008	Humidity Sensor Signal	I	—

B80 Park Brake Switch



3240142

Connector Part Information

Harness Type: Body
OEM Connector: 13705266
Service Connector: 19301743
Description: 1-Way F 630 Metri-Pack Series (BK)

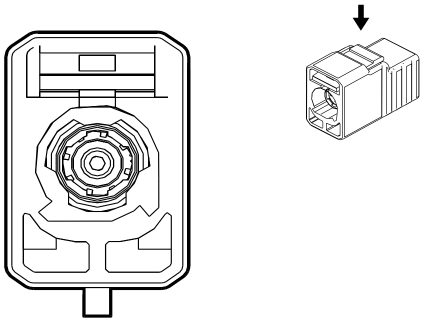
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-42 (RD)	No Tool Required	Not Required	Not Required	Not Required	Not Required

B80 Park Brake Switch

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.5	L-BU/VT	1134	Park Brake Switch Signal	I	—

B87 Rearview Camera (UVB)



4991178

Connector Part Information

Harness Type: Rear Fascia COAX
OEM Connector: 13516347
Service Connector: Service by Cable Assembly — See Part Catalog
Description: 1-Way F Coax Type (OG)

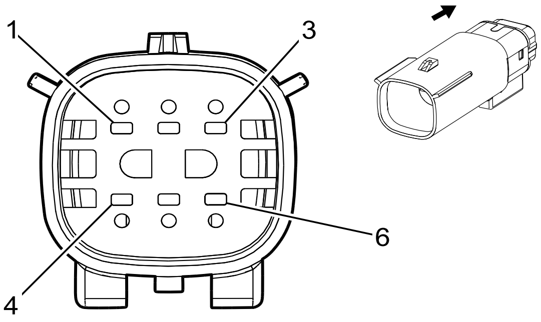
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	No Tool Required	No Tool Required	Not Required	Not Required	Not Required	Not Required

B87 Rearview Camera (UVB)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
—	—	Coax	—	(ISRVM) Camera Video Signal	I	—

B87 Rearview Camera (UVC+IOR)



1986159

Connector Part Information

Harness Type: Rear Fascia
OEM Connector: 33482-3601
Service Connector: Service by Harness - See Part Catalog
Description: 6-Way M 150 MX Series, Sealed (BK)

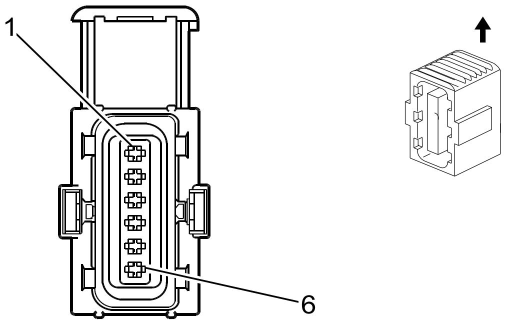
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-3 (GY)	No Tool Required	Not Required	Not Required	Not Required	Not Required

B87 Rearview Camera (UVC+IOR)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	L-GN/WH	24	Backup Lamp Control	I	—
2	0.5	GY/YE	6972	Camera Signal 2 +	I	—
3	0.5	VT/L-GN	1739	Run/Crank Ignition 1 Voltage	I	—
4	0.5	L-GN	6974	Camera Low Reference	I	—
5	0.5	BK/WH	751	Signal Ground	I	—
6	0.5	WH/L-BU	6973	Camera Signal 2	I	—

B107 Accelerator Pedal Position Sensor



1334452

Connector Part Information

Harness Type: Body
OEM Connector: 6-929264-1
Service Connector: 13580116
Description: 6-Way F 1.2 Micro-Timer Series, Sealed (BK)

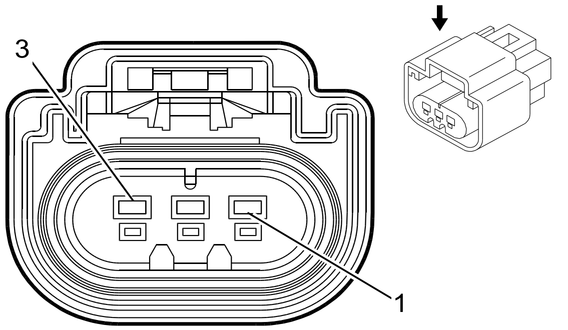
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-14 (GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

B107 Accelerator Pedal Position Sensor

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	BN/RD	1274	Accelerator Pedal Position 5V Reference 2	I	—
2	0.5	WH/RD	1164	Accelerator Pedal Position 5V Reference 1	I	—
3	0.5	YE/WH	1161	Accelerator Pedal Position Signal 1	I	—
4	0.5	BK/L-BU	1271	Accelerator Pedal Position Low Reference 1	I	—
5	0.5	BK/VT	1272	Accelerator Pedal Position Low Reference 2	I	—
6	0.5	L-GN/WH	1162	Accelerator Pedal Position Signal 2	I	—

B115 Vehicle Speed Sensor (NQ6/NQ7)



1962078

Connector Part Information

Harness Type: Engine
OEM Connector: 13511996
Service Connector: 13580873
Description: 3-Way F 150 GT Series, Sealed (GY)

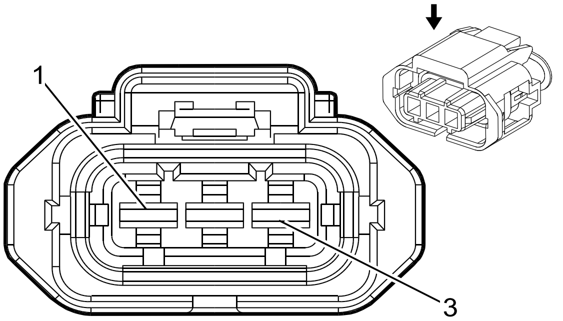
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-14 (GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

B115 Vehicle Speed Sensor (NQ6/NQ7)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	L-BU/RD	1688	5V Reference	I	—
2	0.5	VT/WH	821	Vehicle Speed Sensor Signal	I	—
3	0.5	BK/L-GN	822	Vehicle Speed Sensor Low Reference	I	—

B116 Water in Fuel Sensor



1914850

Connector Part Information

Harness Type: Chassis
OEM Connector: 15397338
Service Connector: 13585845
Description: 3-Way F 2.8 Junior Power Timer Series, Sealed (BK)

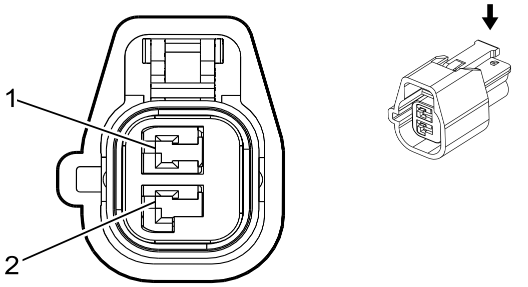
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-35 (VT)	No Tool Required	Not Required	Not Required	Not Required	Not Required

B116 Water in Fuel Sensor

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.75	VT/GY	139	Run/Crank Ignition 1 Voltage	I	—
2	0.75	BK	1950	Ground	I	—
3	0.5	L-BU/YE	6861	Water In Fuel Sensor Signal	I	—

B118 Windshield Washer Fluid Level Sensor



2904462

Connector Part Information

Harness Type: Forward Lamp
OEM Connector: 7283-6434-40
Service Connector: 19301729
Description: 2-Way F 1.5 Series (L-GY)

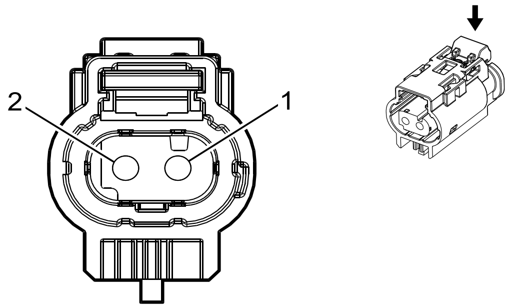
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-14 (GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

B118 Windshield Washer Fluid Level Sensor

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	VT	185	Low Washer Fluid Indicator Control	I	—
2	0.5	BK	1150	Ground	I	—

B130A Exhaust Gas Recirculation Temperature Sensor 1



3747581

Connector Part Information

Harness Type: Engine
OEM Connector: 10094237
Service Connector: 19332628
Description: 2-Way F 1.2 Multilock Series, Sealed (GY)

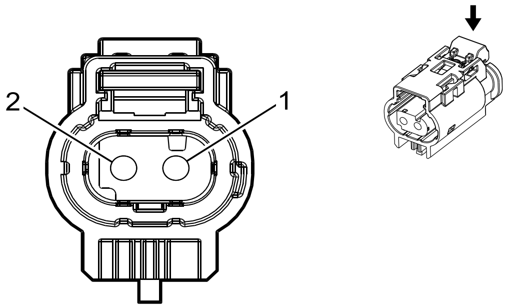
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-16 (LT GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

B130A Exhaust Gas Recirculation Temperature Sensor 1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	BK/YE	6275	Exhaust Gas Recirculation Temperature Sensor 2 Low Reference	I	—
2	0.5	YE/L-GN	3236	Exhaust Gas Recirculation Temperature Sensor 2 Signal	I	—

B130B Exhaust Gas Recirculation Temperature Sensor 2



3747581

Connector Part Information

Harness Type: Engine
OEM Connector: 10094234
Service Connector: 19332719
Description: 2-Way F 1.2 Multilock Series, Sealed (BK)

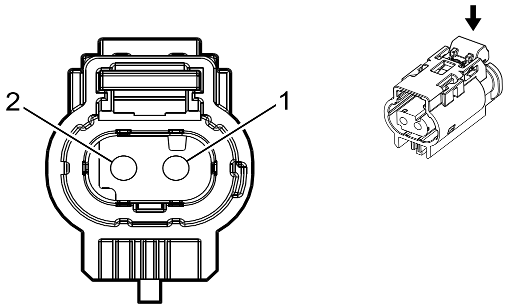
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-16 (LT GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

B130B Exhaust Gas Recirculation Temperature Sensor 2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	BK/L-BU	6274	Exhaust Gas Recirculation Temperature Sensor Low Reference	I	—
2	0.5	WH/BN	3237	Exhaust Gas Recirculation Temperature Sensor Signal	I	—

B131A Exhaust Temperature Sensor 1



3747581

Connector Part Information

Harness Type: Engine
OEM Connector: 10094234
Service Connector: 19332719
Description: 2-Way F 1.2 Multilock Series, Sealed (BK)

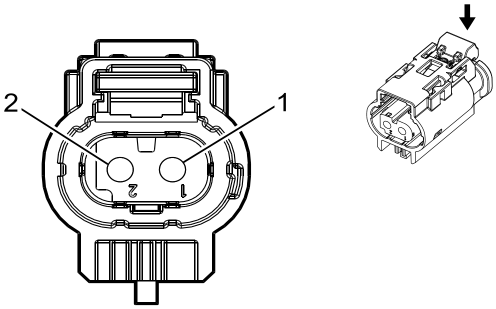
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-16 (LT GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

B131A Exhaust Temperature Sensor 1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	BK/BN	6782	Exhaust Gas Temperature Sensor 1 Low Reference	I	—
2	0.5	L-BU/WH	5277	Exhaust Gas Temperature Sensor 1	I	—

B131B Exhaust Temperature Sensor 2



3747580

Connector Part Information

Harness Type: Chassis
OEM Connector: 10094236
Service Connector: 19332627
Description: 2-Way F 1.2 Multilock Series, Sealed (GY)

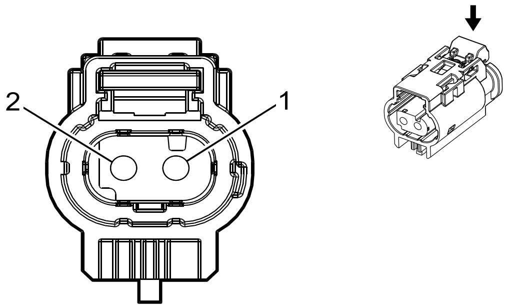
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-16 (LT GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

B131B Exhaust Temperature Sensor 2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	BK/L-BU	6783	Exhaust Gas Temperature Sensor 2 Low Reference	I	—
2	0.5	L-BU/L-GN	5377	Exhaust Gas Temperature Sensor 2	I	—

B131C Exhaust Temperature Sensor 3



3747581

Connector Part Information

Harness Type: Chassis
OEM Connector: 10094237
Service Connector: 19332628
Description: 2-Way F 1.2 Multilock Series, Sealed (GY)

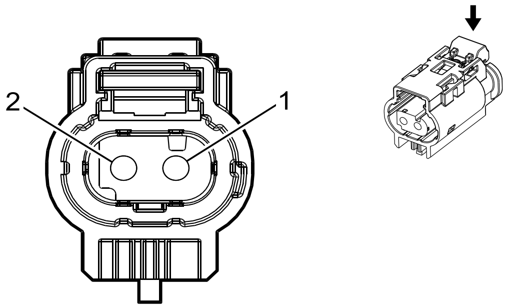
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-16 (LT GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

B131C Exhaust Temperature Sensor 3

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	BK/L-GN	3657	Exhaust Gas Temperature Sensor 3 Low Reference	I	—
2	0.5	GY/L-GN	5378	Exhaust Gas Temperature Sensor 3	I	—

B131D Exhaust Temperature Sensor 4



3747581

Connector Part Information

Harness Type: Chassis
OEM Connector: 10094234
Service Connector: 19332719
Description: 2-Way F 1.2 Multilock Series, Sealed (BK)

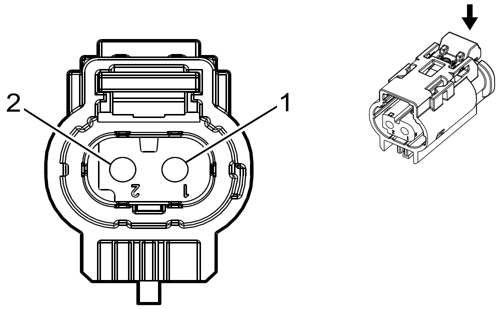
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-16 (LT GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

B131D Exhaust Temperature Sensor 4

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	BK/GY	3659	Exhaust Gas Temperature Sensor 4 Low Reference	I	—
2	0.5	VT/BN	3658	Exhaust Gas Temperature Sensor 4 Signal	I	—

B131E Exhaust Temperature Sensor 5



3747580

Connector Part Information

Harness Type: Chassis
OEM Connector: 10094236
Service Connector: 19332627
Description: 2-Way F 1.2 Multilock Series, Sealed (GY)

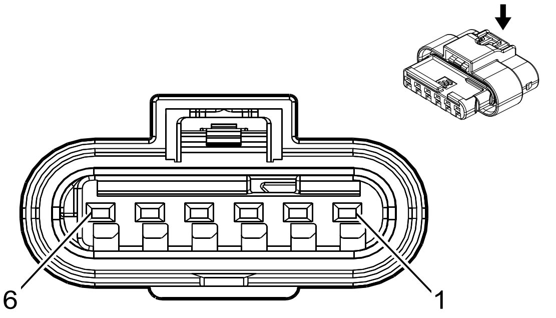
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-16 (LT GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

B131E Exhaust Temperature Sensor 5

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	BK/VT	3661	Exhaust Gas Temperature Sensor 5 Low Reference	I	—
2	0.5	L-BU/GY	3660	Exhaust Gas Temperature Sensor 5 Signal	I	—

B136 Exhaust Particulate Matter Sensor



3747582

Connector Part Information

Harness Type: Chassis
OEM Connector: 34900-6121
Service Connector: 19354530
Description: 6-Way F 1.2 MCON-LL Series, Sealed (BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-16 (LT GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

B136 Exhaust Particulate Matter Sensor

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	1	BK	1950	Ground	I	—
2	0.5	WH	4499	High Speed GMLAN Serial Data (-) 7	I	—
3	0.5	WH	4499	High Speed GMLAN Serial Data (-) 7	I	—
4	0.5	L-BU/BN	4498	High Speed GMLAN Serial Data (+) 7	I	—
5	0.5	L-BU/BN	4498	High Speed GMLAN Serial Data (+) 7	I	—
6	1	VT/L-BU	3674	NOx Sensor 1 Control	I	—

B137 Power Steering Shaft Torque Sensor

—

Connector Part Information

Harness Type: Power Steering
OEM Connector: 965382-2
Service Connector: Service by Harness - See Part Catalog
Description: 6-Way

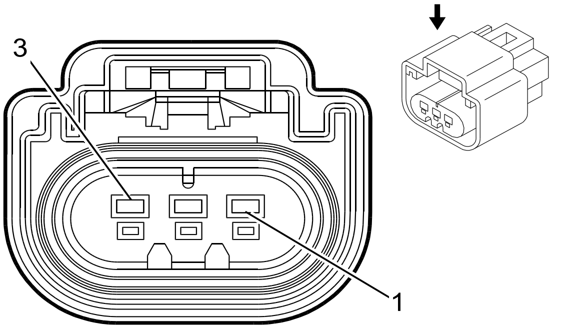
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	Not Available	No Tool Required	Not Required	Not Required	Not Required	Not Required

B137 Power Steering Shaft Torque Sensor

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	BN/RD	6631	Torque Input Sensor High Reference	I	—
2	0.5	BN/BK	—	5 - Volt Reference	I	—
3	0.5	WH/OG	—	PWM	I	—
4	0.5	BK/BU	6632	Torque Input Sensor Low Reference	I	—
5	0.5	BN/RD	6631	Torque Input Sensor High Reference	I	—
6	0.5	BU/GY	6633	Torque Input Sensor Signal	I	—
7	0.5	BU/GY	6633	Torque Input Sensor Signal	I	—
8	0.5	BK/BU	6632	Torque Input Sensor Low Reference	I	—

B150 Fuel Tank Pressure Sensor



1962078

Connector Part Information

Harness Type: Chassis
OEM Connector: 13511996
Service Connector: 13580873
Description: 3-Way F 150 GT Series, Sealed (GY)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-14 (GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

B150 Fuel Tank Pressure Sensor

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	L-BU/WH	890	Fuel Tank Pressure Sensor Signal	I	—
2	0.5	BK/L-GN	6281	Fuel Level Sensor Low Reference	I	—
3	0.5	YE/RD	2709	Fuel Tank Pressure Sensor 5V Reference	I	—

B153D Seat Belt Buckle - Driver

—

Connector Part Information

Harness Type: Driver Seat Cushion
OEM Connector: Not Available
Service Connector: Service by Harness - See Part Catalog
Description: 6-Way

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	Not Available	No Tool Required	Not Required	Not Required	Not Required	Not Required

B153D Seat Belt Buckle - Driver

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	BK/OG	1363	Driver Seat Belt Switch Low Reference	I	—
2	0.35	OG/BN	238	Driver Seat Belt Switch Signal	I	—

B153P Seat Belt Buckle - Passenger

—

Connector Part Information

Harness Type: Passenger Seat Cushion
OEM Connector: Not Available
Service Connector: Service by Harness - See Part Catalog
Description: 6-Way

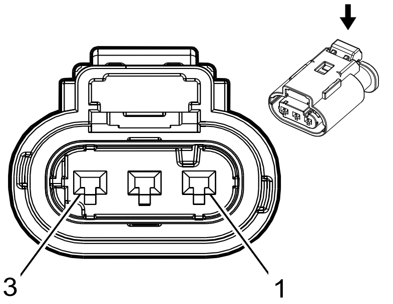
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	Not Available	No Tool Required	Not Required	Not Required	Not Required	Not Required

B153P Seat Belt Buckle - Passenger

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	BK/OG	1361	Passenger Seat Belt Switch Low Reference	I	—
2	0.35	OG/VT	1362	Passenger Seat Belt Switch Signal	I	—

B154 Diesel Particulate Filter Exhaust Differential Pressure Sensor



2717069

Connector Part Information

Harness Type: Chassis
OEM Connector: 10010341
Service Connector: 19299690
Description: 3-Way F 1.2 Multilock Series, Sealed (BK)

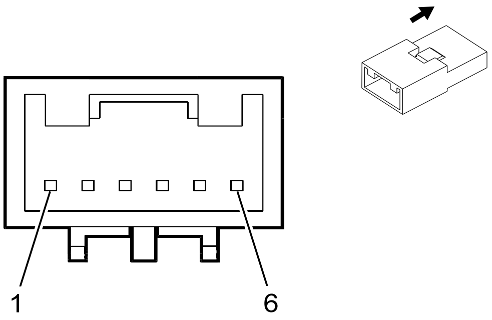
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-16 (LT GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

B154 Diesel Particulate Filter Exhaust Differential Pressure Sensor

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	L-BU	6053	Exhaust Pressure Sensor Signal 1	I	—
2	0.5	BK/YE	6055	Exhaust Pressure Sensor Low Reference 1	I	—
3	0.5	WH/RD	6054	Exhaust Pressure Sensor 5V Reference 1	I	—

B160 Windshield Temperature and Inside Moisture Sensor



2839920

Connector Part Information

Harness Type: Headliner
OEM Connector: AIT2WSB-06-1AK
Service Connector: 19299681
Description: 6-Way M 0.64 Kaizen Series (BK)

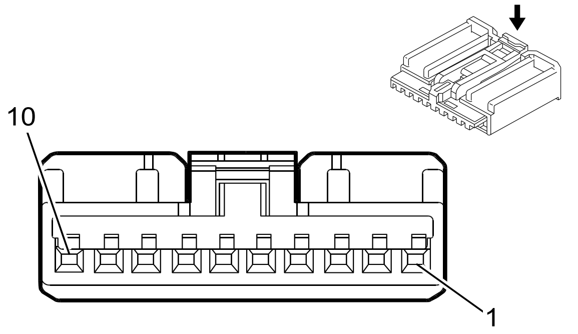
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-65B (LT BU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

B160 Windshield Temperature and Inside Moisture Sensor

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	YE/RD	597	5V Reference	I	—
2	0.35	GY/L-BU	7564	Humidity Sensor Signal	I	—
3	0.35	BK/L-BU	7566	Humidity/Windscreen Temp Sensor Low Reference	I	—
4	0.35	GY/L-GN	7565	Windscreen Temp Sensor Signal	I	—
5	0.35	YE/L-BU	3197	Humidity Temperature Sensor Signal	I	—
6	—	—	—	Not Occupied	—	—

B174W Frontview Camera - Windshield



1862241

Connector Part Information

Harness Type: Headliner
OEM Connector: AIT2PB-10-1AK
Service Connector: 13576634
Description: 10-Way F 0.64 Kaizen Series (BK)

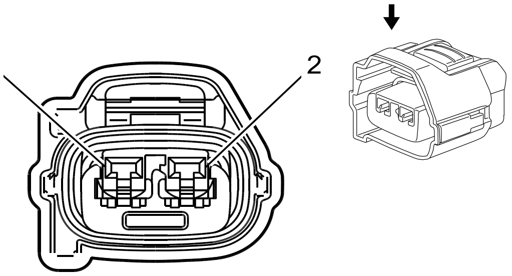
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13575742	J-35616-64B (LT BU)	J-38125-215A	SAIT-A03T-M064	Yazaki 14	P	P
II	13575867	J-35616-64B (LT BU)	J-38125-215A	SAIT-A03T-M064	Yazaki 14	P	P

B174W Frontview Camera - Windshield

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	BK/WH	3451	Signal Ground	II	—
2	—	—	—	Not Occupied	—	—
3	0.35	RD/L-GN	3140	Battery Positive Voltage	II	—
4	0.35	WH	3152	Lane Departure Warning Indicator Control	II	—
5 - 6	—	—	—	Not Occupied	—	—
7	0.5	L-GN	5060	Low Speed GMLAN Serial Data	I	—
8 - 9	—	—	—	Not Occupied	—	—
10	0.35	GY/WH	3153	Lane Departure Warning Disable Switch Signal	II	—

B193A Charge Air Cooler Inlet Temperature Sensor



2388842

Connector Part Information

Harness Type: Engine
OEM Connector: 7283-7020-10
Service Connector: 13576415
Description: 2-Way F 090 Series, Sealed (D-GY)

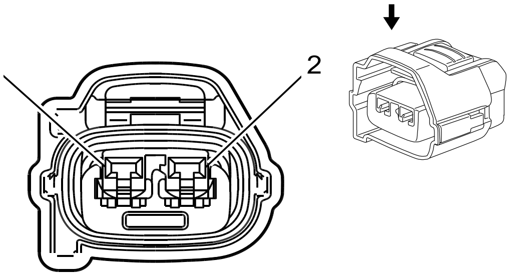
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-18 (BK)	No Tool Required	Not Required	Not Required	Not Required	Not Required

B193A Charge Air Cooler Inlet Temperature Sensor

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	L-GN	3683	Charge Air Cooler Inlet Temperature Sensor Signal	I	—
2	0.5	YE/BK	3682	Charge Air Cooler Inlet Temperature Sensor Low Reference	I	—

B193B Charge Air Cooler Outlet Temperature Sensor



2388842

Connector Part Information

Harness Type: Engine
OEM Connector: 7283-7020-10
Service Connector: 13576415
Description: 2-Way F 090 Series, Sealed (D-GY)

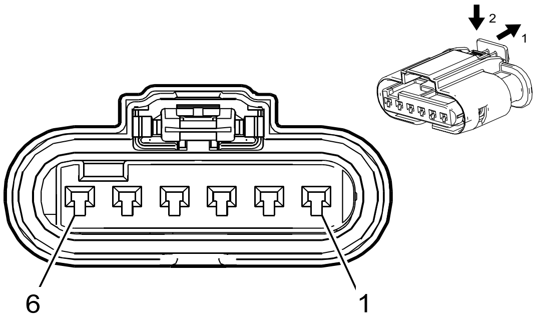
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-18 (BK)	No Tool Required	Not Required	Not Required	Not Required	Not Required

B193B Charge Air Cooler Outlet Temperature Sensor

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	BN	3681	Charge Air Cooler Outlet Temperature Sensor Signal	I	—
2	0.5	YE/L-BU	3680	Charge Air Cooler Outlet Temperature Sensor Low Reference	I	—

B195A Nitrogen Oxides Sensor 1



3960142

Connector Part Information

Harness Type: Chassis
OEM Connector: 34900-6119
Service Connector: 19353874
Description: 6-Way F 1.2 MCON-LL Series, Sealed (BK)

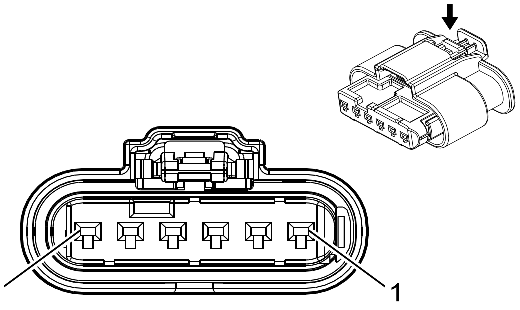
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-16 (LT GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

B195A Nitrogen Oxides Sensor 1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	1	VT/L-BU	3674	NOx Sensor 1 Control	I	—
2	0.5	L-BU/BN	4498	High Speed GMLAN Serial Data (+) 7	I	—
3	0.5	L-BU/BN	4498	High Speed GMLAN Serial Data (+) 7	I	—
4	0.5	WH	4499	High Speed GMLAN Serial Data (-) 7	I	—
5	0.5	WH	4499	High Speed GMLAN Serial Data (-) 7	I	—
6	1	BK	1950	Ground	I	—

B195B Nitrogen Oxides Sensor 2



4455148

Connector Part Information

Harness Type: Chassis
OEM Connector: 34900-6128
Service Connector: 19353875
Description: 6-Way F 1.2 MCON-LL Series, Sealed (GY)

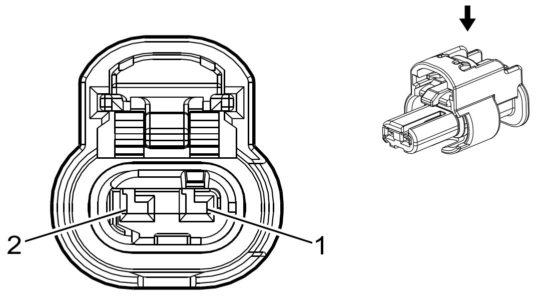
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-16 (LT GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

B195B Nitrogen Oxides Sensor 2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	1	VT/L-BU	3674	NOx Sensor 1 Control	I	—
2	0.5	L-BU/BN	4498	High Speed GMLAN Serial Data (+) 7	I	—
3 - 4	—	—	—	Not Occupied	—	—
5	0.5	WH	4499	High Speed GMLAN Serial Data (-) 7	I	—
6	1	BK	1950	Ground	I	—

B203 Radiator Coolant Temperature Sensor



4649903

Connector Part Information

Harness Type: Forward Lamp Extension
OEM Connector: 1-2296694-1
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way F 1.2 MCON Series, Sealed (BK)

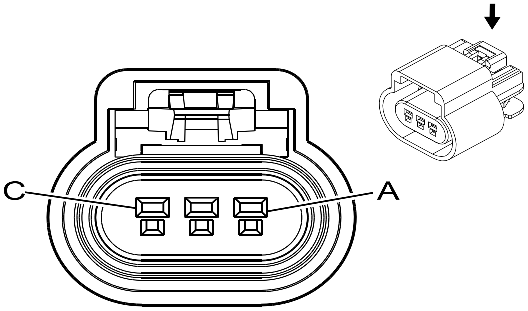
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-16 (LT GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

B203 Radiator Coolant Temperature Sensor

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	YE/BK	3000	Coolant Temperature Sensor 2 Signal	I	—
2	0.5	BK/L-BU	6813	Coolant Temperature Sensor 2 Low Reference	I	—

B227 Gear Position Sensor



646415

Connector Part Information

Harness Type: Engine
OEM Connector: 15326808
Service Connector: -
Description: 3-Way F 150 GT Series, Sealed (BK)

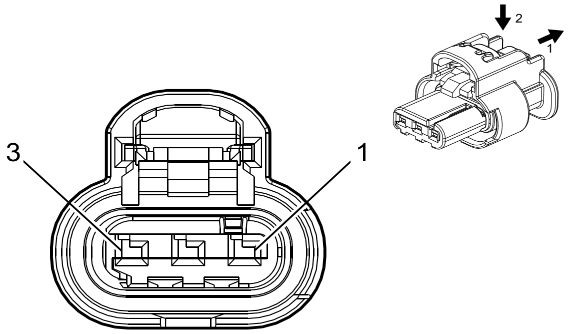
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-14 (GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

B227 Gear Position Sensor

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.5	YE/BK	7478	Rotary Position Sensor Low Reference	I	—
B	0.5	WH/RD	7477	Rotary Position Sensor 5V Reference	I	—
C	0.5	WH/L-GN	7479	Rotary Position Sensor Signal	I	—

B306E Parking Assist Sensor - Rear Left Outer



4581126

Connector Part Information

Harness Type: Rear Fascia
OEM Connector: 1-2296695-1
Service Connector: Service by Harness - See Part Catalog
Description: 3-Way F 1.2 MCON-CB Series, Sealed (BK)

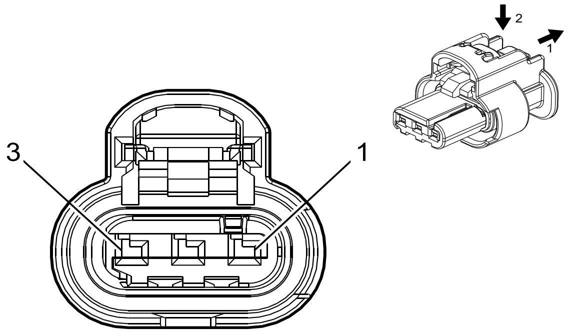
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-16 (LT GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

B306E Parking Assist Sensor - Rear Left Outer

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	BN/WH	2374	Object Sensor Control	I	—
2	0.5	YE	2375	Left Rear Corner Object Sensor Signal	I	—
3	0.5	BK/GY	2379	Object Sensor Low Reference	I	—

B306F Parking Assist Sensor - Rear Left Middle



4581126

Connector Part Information

Harness Type: Rear Fascia
OEM Connector: 1-2296695-1
Service Connector: Service by Harness - See Part Catalog
Description: 3-Way F 1.2 MCON-CB Series, Sealed (BK)

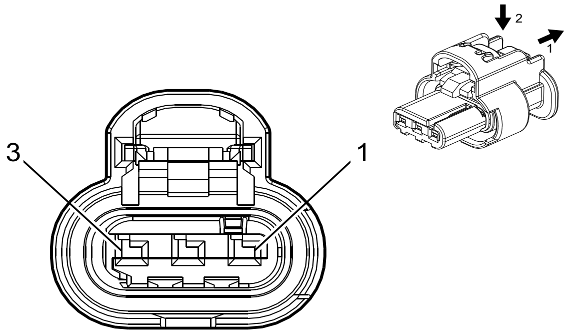
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-16 (LT GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

B306F Parking Assist Sensor - Rear Left Middle

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	BN/WH	2374	Object Sensor Control	I	—
2	0.5	YE/L-BU	2376	Left Rear Middle Object Sensor Signal	I	—
3	0.5	BK/GY	2379	Object Sensor Low Reference	I	—

B306G Parking Assist Sensor - Rear Right Middle



4581126

Connector Part Information

Harness Type: Rear Fascia
OEM Connector: 1-2296695-1
Service Connector: Service by Harness - See Part Catalog
Description: 3-Way F 1.2 MCON-CB Series, Sealed (BK)

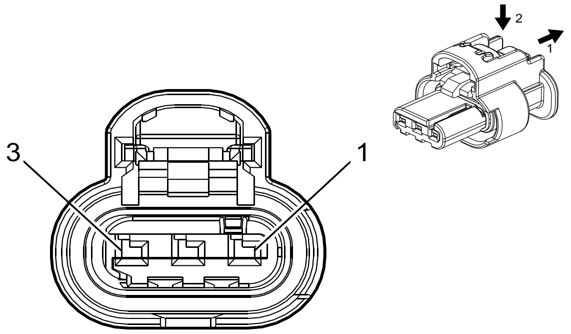
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-16 (LT GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

B306G Parking Assist Sensor - Rear Right Middle

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	BN/WH	2374	Object Sensor Control	I	—
2	0.5	YE/WH	2377	Right Rear Middle Object Sensor Signal	I	—
3	0.5	BK/GY	2379	Object Sensor Low Reference	I	—

B306H Parking Assist Sensor - Rear Right Outer



4581126

Connector Part Information

Harness Type: Rear Fascia
OEM Connector: 1-2296695-1
Service Connector: Service by Harness - See Part Catalog
Description: 3-Way F 1.2 MCON-CB Series, Sealed (BK)

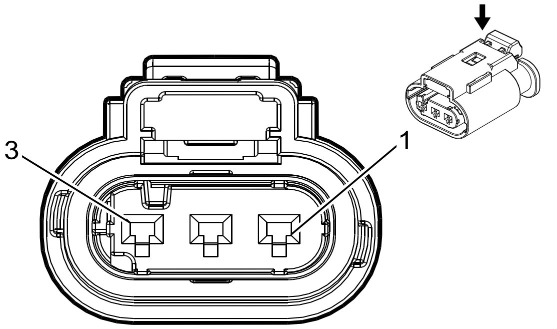
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-16 (LT GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

B306H Parking Assist Sensor - Rear Right Outer

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	BN/WH	2374	Object Sensor Control	I	—
2	0.5	YE/VT	2378	Right Rear Corner Object Sensor Signal	I	—
3	0.5	BK/GY	2379	Object Sensor Low Reference	I	—

B310 Fuel Pressure/Temperature Sensor (LGZ/LCV)



3240107

Connector Part Information

Harness Type: Fuel Injector
OEM Connector: 13503573
Service Connector: Service by Harness - See Part Catalog
Description: 3-Way F 1.2 Multilock Series, Sealed (BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	Not Available	No Tool Required	Not Required	Not Required	Not Required	Not Required

B310 Fuel Pressure/Temperature Sensor (LGZ/LCV)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	BK/GN	2919	Fuel Rail Pressure Sensor Low Reference	I	—
2	0.5	BU/WH	2918	Fuel Rail Pressure Sensor Signal	I	—
3	0.5	BN/RD	2917	Fuel Rail Pressure Sensor 5V Reference	I	—

C1 Battery X2

—

Connector Part Information

Harness Type: Battery Cable
OEM Connector: BBS16068
Service Connector: Service by Harness - See Part Catalog
Description: —

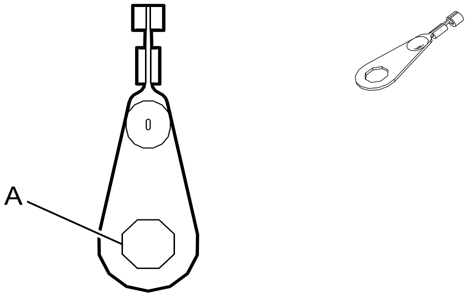
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	-	No Tool Required	Not Required	Not Required	Not Required	Not Required

C1 Battery X2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	25	BK	150	Ground	I	—
	35	BK	250	Ground	I	—

C1 Battery X3



2906941

Connector Part Information

Harness Type: Body
OEM Connector: 13268280
Service Connector: Service by Cable Assembly — See Part Catalog
Description: 1-Way Ring Terminal

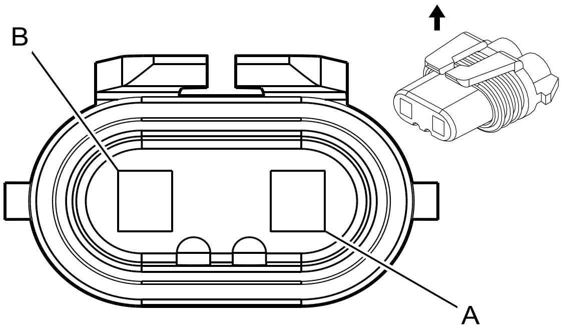
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	No Tool Required	No Tool Required	Not Required	Not Required	Not Required	Not Required

C1 Battery X3

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.5	BK	1650	Ground	I	—

E4E Headlamp - Left High Beam



684797

Connector Part Information

Harness Type: Left Front Headlamp Assembly
OEM Connector: 12059183
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way F 280 Metri-Pack Series, Sealed (BK)

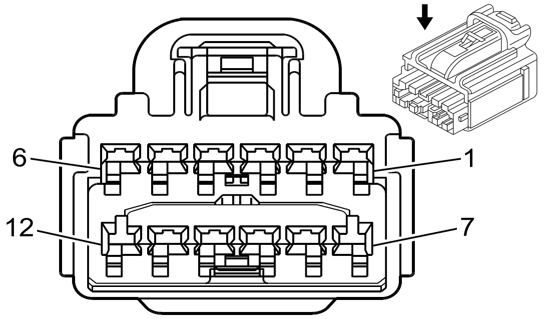
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	Not Available	No Tool Required	Not Required	Not Required	Not Required	Not Required

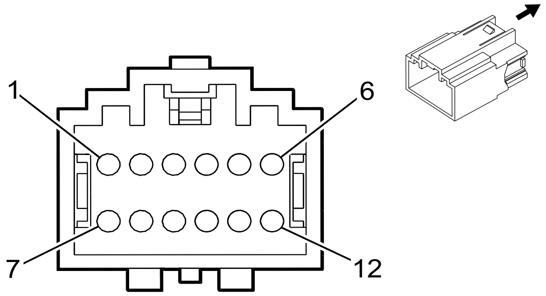
E4E Headlamp - Left High Beam

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	1.5	BK	711	Left Headlamp High Beam Control	I	—
B	1.5	BK	1150	Ground	I	—

E4E Headlamp - Left High Beam



1856789



3240100

Connector Part Information

Harness Type: Right Rear Door
OEM Connector: 7283-3442-40
Service Connector: Service by Harness - See Part Catalog
Description: 12-Way F YESC Kaizen Series (L-GY)

Connector Part Information

Harness Type: Body
OEM Connector: 7282-3442-40
Service Connector: 88988266
Description: 12-Way M 1.5 Series (L-GY)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-2A (GY)	No Tool Required	Not Required	Not Required	Not Required	Not Required
II	13575818	J-35616-3 (GY)	J-38125-553	Not Available	Not Available	Not Available	Not Available
III	19329753	J-35616-3 (GY)	J-38125-12A	Not Available	Not Available	Not Available	Not Available

E4E Headlamp - Left High Beam

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	—	—	—	—	—	Not Occupied	1	—	—	—	—	—
2	0.5	OG/ BN	3479	I	—	Passenger Seat Belt Anchor Pretensioner High Control	2	0.35	OG/ BN	3479	III	—
3	0.5	OG/ L-GN	3475	I	—	Passenger Seat Belt Retractor Pretensioner High Control	3	0.35	OG/ L-GN	3475	III	—
4	1	L-BU/ BK	115	I	—	Right Rear Speaker Signal (-)	4	1	L-BU/ BK	115	II	—
5	0.35	GY	748	I	—	Right Rear Door Ajar Switch Signal	5	0.35	GY	748	II	—
6 - 7	—	—	—	—	—	Not Occupied	6 - 7	—	—	—	—	—

E4E Headlamp - Left High Beam (cont'd)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
8	0.5	GY/ OG	3480	I	—	Passenger Seat Belt Anchor Pretensioner Low Control	8	0.35	GY/ OG	3480	III	—
9	0.5	WH/ OG	3476	I	—	Passenger Seat Belt Retractor Pretensioner Low Control	9	0.35	WH/ OG	3476	III	—
10	1	WH	46	I	—	Right Rear Speaker Control (+)	10	1	WH	46	II	—
11	0.35	BK	3450	I	—	Ground	11	0.5	BK	3450	II	—
12	—	—	—	—	—	Not Occupied	12	—	—	—	—	—

E4G Headlamp - Left Low Beam

—

Connector Part Information

Harness Type: Left Front Headlamp Assembly
OEM Connector: Not Available
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	Not Available	No Tool Required	Not Required	Not Required	Not Required	Not Required

E4G Headlamp - Left Low Beam

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	1.5	BK	712	Left Headlamp Low Beam Control	I	—
2	1.5	BK	1150	Ground	I	—

E4H Headlamp - Right Low Beam

—

Connector Part Information

Harness Type: Right Front Headlamp Assembly
OEM Connector: Not Available
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	Not Available	No Tool Required	Not Required	Not Required	Not Required	Not Required

E4H Headlamp - Right Low Beam

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	1.5	BK	1250	Ground	I	—
2	1.5	BK	312	Right Headlamp Low Beam Control	I	—

E4J Park Lamp - Left Front

—

Connector Part Information

Harness Type: Left Front Headlamp Assembly
OEM Connector: Not Available
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	Not Available	No Tool Required	Not Required	Not Required	Not Required	Not Required

E4J Park Lamp - Left Front

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.75	RD	709	Left Park Lamp Control	I	—
B	0.75	BK	1150	Ground	I	—

E4K Park Lamp - Right Front (X88)

—

Connector Part Information

Harness Type: Right Front Headlamp Assembly
OEM Connector: Not Available
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way

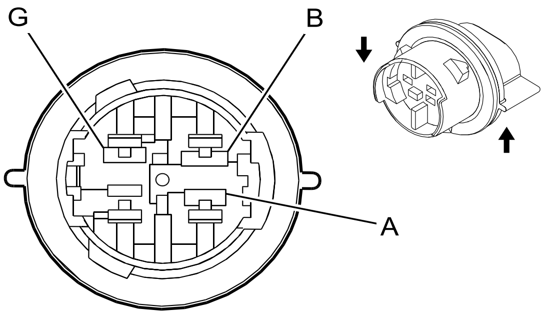
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	Not Available	No Tool Required	Not Required	Not Required	Not Required	Not Required

E4K Park Lamp - Right Front (X88)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.75	RD	309	Right Park Lamp Control	I	—
B	0.75	BK	1250	Ground	I	—

E4N Park/Turn Signal Lamp - Left



1717007

Connector Part Information

Harness Type: Left Front Headlamp Assembly
OEM Connector: 16530873
Service Connector: Service by Harness - See Part Catalog
Description: 3-Way F Wedge Base Lamp Socket, Type W-3 (BK)

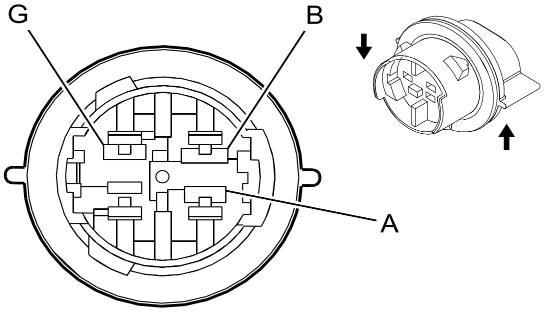
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	Not Available	No Tool Required	Not Required	Not Required	Not Required	Not Required

E4N Park/Turn Signal Lamp - Left

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.75	YE	1314	Left Front Turn Signal Lamp Control	I	—
B	0.75	BK	709	Left Park Lamp Control	I	—
G	0.75	BK	1150	Ground	I	—

E4P Park/Turn Signal Lamp - Right



1717007

Connector Part Information

Harness Type: Right Front Headlamp Assembly
OEM Connector: 16530873
Service Connector: Service by Harness - See Part Catalog
Description: 3-Way F Wedge Base Lamp Socket, Type W-3 (BK)

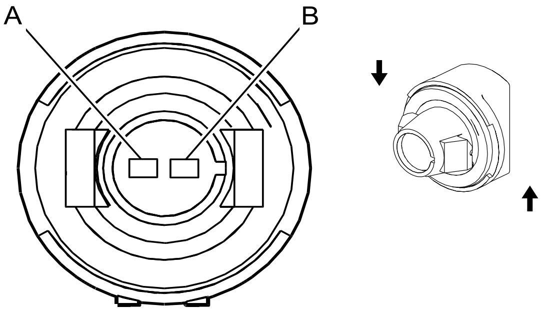
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	Not Available	No Tool Required	Not Required	Not Required	Not Required	Not Required

E4P Park/Turn Signal Lamp - Right

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.75	YE	1315	Right Front Turn Signal Lamp Control	I	—
B	0.75	BK	309	Right Park Lamp Control	I	—
G	0.75	BK	1250	Ground	I	—

E5A Backup Lamp - Left



877923

Connector Part Information

Harness Type: Left Tail Lamp
OEM Connector: 16530675
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way F (L-GY)

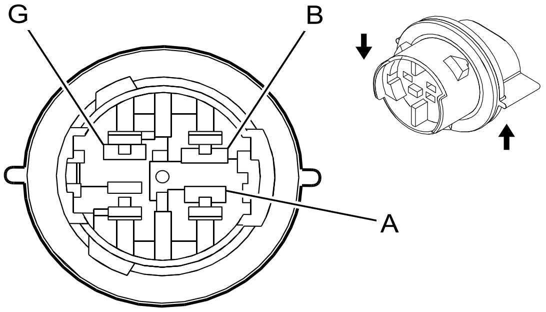
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	Not Available	No Tool Required	Not Required	Not Required	Not Required	Not Required

E5A Backup Lamp - Left

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	—	YE	24	Backup Lamp Control	I	—
B	—	BK	750	Ground	I	—

E5AG Tail/Stop and Turn Signal Lamp - Left Upper



1717007

Connector Part Information

Harness Type: Left Tail Lamp
OEM Connector: 16530873
Service Connector: Service by Harness - See Part Catalog
Description: 3-Way F Wedge Base Lamp Socket, Type W-3 (BK)

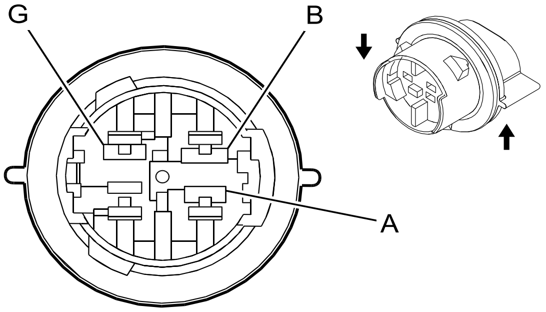
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	Not Available	No Tool Required	Not Required	Not Required	Not Required	Not Required

E5AG Tail/Stop and Turn Signal Lamp - Left Upper

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	—	GY	7542	Left Rear Stop Lamp Control	I	—
B	—	OG	2509	Left Rear Park Lamp Control	I	—
G	—	BK	750	Ground	I	—

E5AH Tail/Stop and Turn Signal Lamp - Right Upper



1717007

Connector Part Information

Harness Type: Right Tail Lamp
OEM Connector: 16530873
Service Connector: Service by Harness - See Part Catalog
Description: 3-Way F Wedge Base Lamp Socket, Type W-3 (BK)

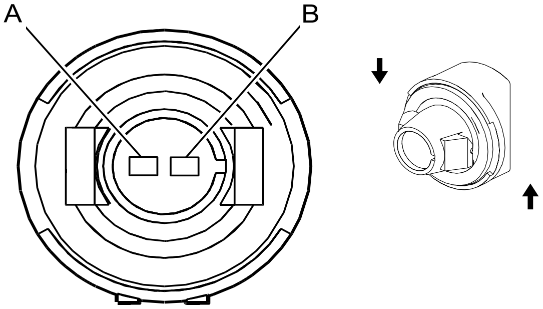
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	Not Available	No Tool Required	Not Required	Not Required	Not Required	Not Required

E5AH Tail/Stop and Turn Signal Lamp - Right Upper

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	—	GY	7541	Right Rear Stop Lamp Control	I	—
B	—	OG	4609	Audio Request Signal	I	—
G	—	BK	850	Ground	I	—

E5B Backup Lamp - Right



877923

Connector Part Information

Harness Type: Right Tail Lamp
OEM Connector: 16530675
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way F (L-GY)

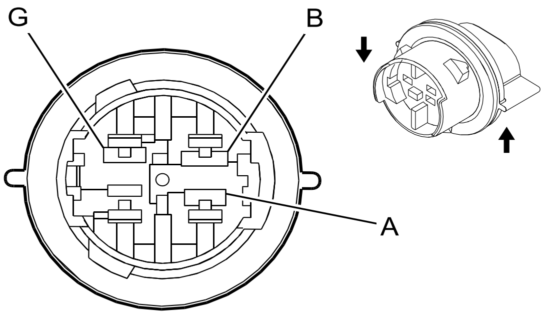
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	Not Available	No Tool Required	Not Required	Not Required	Not Required	Not Required

E5B Backup Lamp - Right

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	—	YE	24	Backup Lamp Control	I	—
B	—	BK	850	Ground	I	—

E5U Tail/Stop and Turn Signal Lamp - Left Lower



1717007

Connector Part Information

Harness Type: Left Tail Lamp
OEM Connector: 16530873
Service Connector: Service by Harness - See Part Catalog
Description: 3-Way F Wedge Base Lamp Socket, Type W-3 (BK)

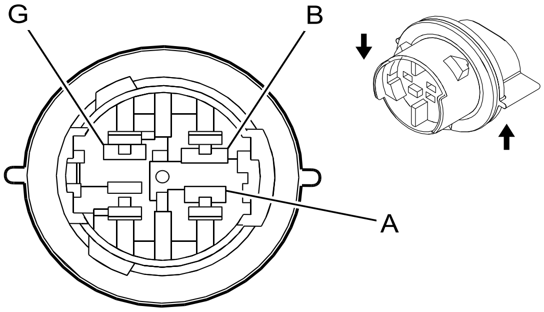
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	Not Available	No Tool Required	Not Required	Not Required	Not Required	Not Required

E5U Tail/Stop and Turn Signal Lamp - Left Lower

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	—	GY	7542	Left Rear Stop Lamp Control	I	—
B	—	OG	2509	Left Rear Park Lamp Control	I	—
G	—	BK	750	Ground	I	—

E5V Tail/Stop and Turn Signal Lamp - Right Lower



1717007

Connector Part Information

Harness Type: Right Tail Lamp
OEM Connector: 16530873
Service Connector: Service by Harness - See Part Catalog
Description: 3-Way F Wedge Base Lamp Socket, Type W-3 (BK)

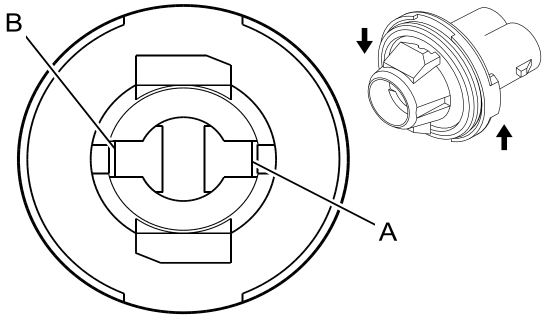
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	Not Available	No Tool Required	Not Required	Not Required	Not Required	Not Required

E5V Tail/Stop and Turn Signal Lamp - Right Lower

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	—	GY	7541	Right Rear Stop Lamp Control	I	—
B	—	OG	4609	Audio Request Signal	I	—
G	—	BK	850	Ground	I	—

E7L License Plate Lamp - Left



744036

Connector Part Information

Harness Type: Rear Fascia
OEM Connector: 15324946
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way F Lamp Socket Wedge Base, Type W-2 (D-GY)

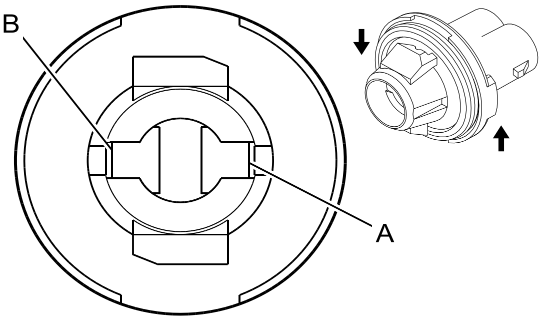
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	-	No Tool Required	Not Required	Not Required	Not Required	Not Required

E7L License Plate Lamp - Left

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.5	L-GN/YE	6846	Rear License Lamp Control	I	—
B	0.5	BK	750	Ground	I	—

E7R License Plate Lamp - Right



744036

Connector Part Information

Harness Type: Rear Fascia
OEM Connector: 15324946
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way F Lamp Socket Wedge Base, Type W-2 (D-GY)

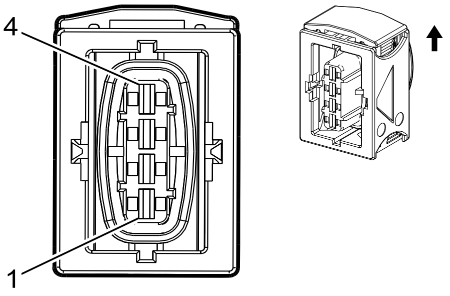
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	-	No Tool Required	Not Required	Not Required	Not Required	Not Required

E7R License Plate Lamp - Right

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.5	L-GN/YE	6846	Rear License Lamp Control	I	—
B	0.5	BK	750	Ground	I	—

E11 Fuel Heater



2470480

Connector Part Information

Harness Type: Chassis
OEM Connector: 15397339
Service Connector: 13384331
Description: 4-Way F 2.8 Junior Power Timer Series, Sealed (BK)

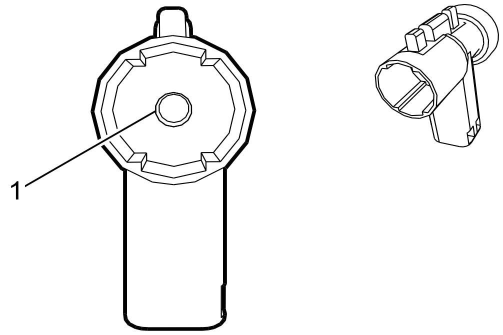
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-35 (VT)	No Tool Required	Not Required	Not Required	Not Required	Not Required

E11 Fuel Heater

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	BN/GY	7072	Sensor Fuel Temperature 1 Signal	I	—
2	0.5	BN/WH	7073	Sensor Fuel Temperature 1 Low Reference	I	—
3	2.5	BK	1950	Ground	I	—
4	2.5	L-BU/L-GN	7071	Heater Fuel Control	I	—

E12A Glow Plug 1



2323611

Connector Part Information

Harness Type: Glow Plug
OEM Connector: 1928404878
Service Connector: Service by Harness - See Part Catalog
Description: 1-Way F (BK)

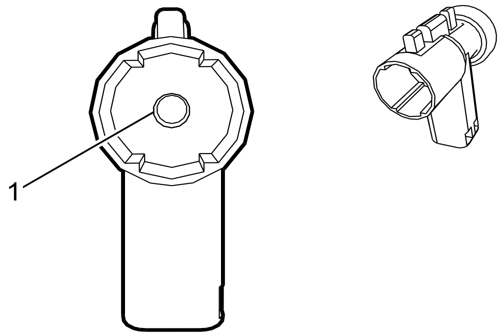
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	-	No Tool Required	Not Required	Not Required	Not Required	Not Required

E12A Glow Plug 1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	1.5	BK	—	—	I	—
	1.5	GN/BK	—	—	I	—
	1.5	WH/BK	—	—	I	—

E12B Glow Plug 2 (LWN)



Connector Part Information

Harness Type: Glow Plug Jumper
OEM Connector: 1928404878
Service Connector: Service by Harness - See Part Catalog
Description: 1-Way F (BK)

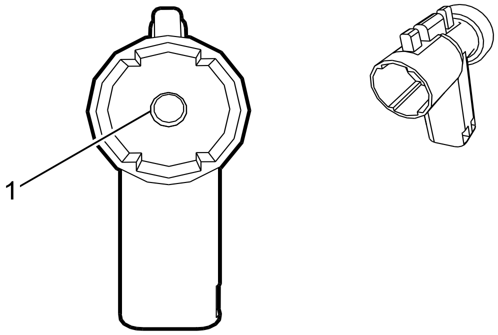
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	Not Available	No Tool Required	Not Required	Not Required	Not Required	Not Required

E12B Glow Plug 2 (LWN)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	1.5	GY/BN	1582	Glow Plug Control 2	I	—

E12C Glow Plug 3 (LWN)



2323611

Connector Part Information

Harness Type: Glow Plug Jumper
OEM Connector: 1928404878
Service Connector: Service by Harness - See Part Catalog
Description: 1-Way F (BK)

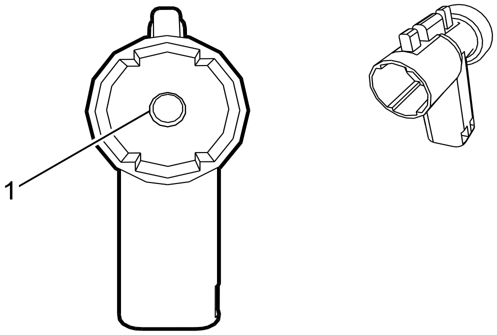
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	Not Available	No Tool Required	Not Required	Not Required	Not Required	Not Required

E12C Glow Plug 3 (LWN)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	1.5	GY/GN	1583	Glow Plug Control 3	I	—

E12D Glow Plug 4 (LWN)



Connector Part Information

Harness Type: Glow Plug Jumper
OEM Connector: 1928404878
Service Connector: Service by Harness - See Part Catalog
Description: 1-Way F (BK)

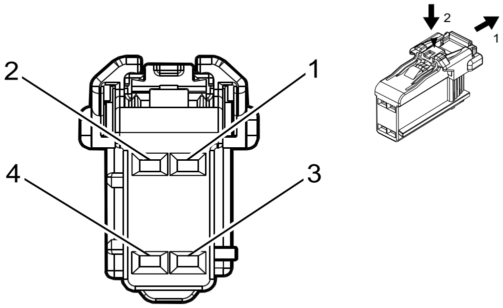
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	Not Available	No Tool Required	Not Required	Not Required	Not Required	Not Required

E12D Glow Plug 4 (LWN)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	1.5	GY/YE	1584	Glow Plug Control 4	I	—

E14A Seat Heating Element - Driver Back (KA1)



4539012

Connector Part Information

Harness Type: Driver Seat Back
OEM Connector: 13595575
Service Connector: Service by Harness - See Part Catalog
Description: 4-Way F 1.2 Series (GY)

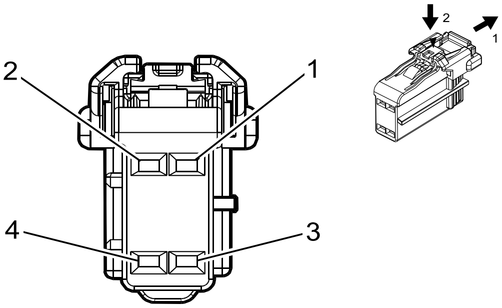
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	Not Available	No Tool Required	Not Required	Not Required	Not Required	Not Required

E14A Seat Heating Element - Driver Back (KA1)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.75	BN	2432	Driver Heated Back Element Control	I	—
2	0.75	BU	2425	Driver Heated Back NTC Signal	I	—
3	0.75	BK/YE	2080	Driver Heated Seat NTC Low Reference	I	—
4	0.75	VT/BK	2424	Driver Heated Back Element Low Reference	I	—

E14B Seat Heating Element - Driver Cushion (KA1)



4115727

Connector Part Information

Harness Type: Driver Seat Cushion
OEM Connector: 13595574
Service Connector: Service by Harness - See Part Catalog
Description: 4-Way F 1.2 Series (BK)

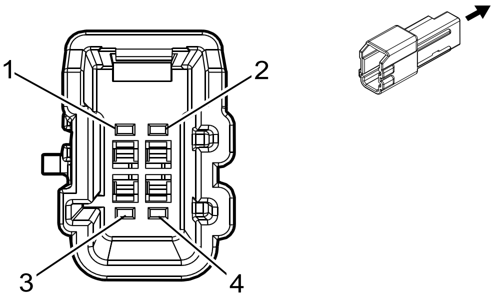
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	Not Available	No Tool Required	Not Required	Not Required	Not Required	Not Required

E14B Seat Heating Element - Driver Cushion (KA1)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.75	BN/VT	2077	Driver Heated Seat Element Control	I	—
2	0.75	YE/GY	2079	Driver Heated Seat NTC Signal	I	—
3	0.75	BK/YE	2080	Driver Heated Seat NTC Low Reference	I	—
4	0.75	VT/BK	2424	Driver Heated Back Element Low Reference	I	—

E14C Seat Heating Element - Passenger Back (KA1)



4293695

Connector Part Information

Harness Type: Passenger Seat Back
OEM Connector: 13595573
Service Connector: Service by Harness - See Part Catalog
Description: 4-Way M 1.2 Series (GY)

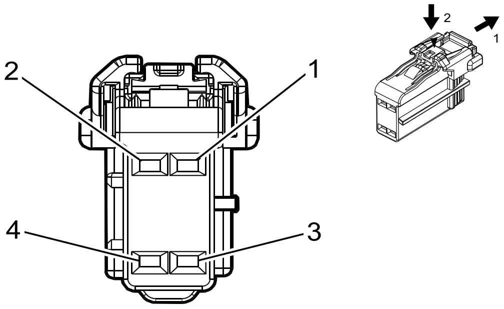
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	Not Available	No Tool Required	Not Required	Not Required	Not Required	Not Required

E14C Seat Heating Element - Passenger Back (KA1)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.75	WH/BN	2481	Passenger Heated Back Element Control	I	—
2	0.75	WH/BU	2436	Passenger Heated Back NTC Signal	I	—
3	0.75	BK/GN	2482	Passenger Heated Back NTC Low Reference	I	—
4	0.75	BK	2480	Passenger Heated Seat Element Low Reference	I	—

E14D Seat Heating Element - Passenger Cushion (KA1)



4115727

Connector Part Information

Harness Type: Passenger Seat Cushion
OEM Connector: 13595574
Service Connector: Service by Harness - See Part Catalog
Description: 4-Way F 1.2 Series (BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	Not Available	No Tool Required	Not Required	Not Required	Not Required	Not Required

E14D Seat Heating Element - Passenger Cushion (KA1)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.75	BN/BU	2479	Passenger Heated Seat Element Control	I	—
2	0.75	WH/GY	2434	Passenger Heated Seat NTC Signal	I	—
3	0.75	GY/BK	2435	Passenger Heated Seat NTC Low Reference	I	—
4	0.75	GY/BK	2480	Passenger Heated Seat Element Low Reference	I	—

E15 Steering Wheel Heater

—

Connector Part Information

Harness Type: Steering Wheel
OEM Connector: Not Available
Service Connector: Service by Harness - See Part Catalog
Description: 4-Way

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	Not Available	No Tool Required	Not Required	Not Required	Not Required	Not Required

E15 Steering Wheel Heater

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	BK	2050	Ground	I	—
2	0.35	GY	5886	Heated Steering Wheel Sensor Signal	I	—
3	0.75	WH	5888	Heated Steering Wheel High Control	I	—
4	0.75	BK	2050	Ground	I	—

E18L Rear Defogger Grid - Left X2

—

Connector Part Information

Harness Type: Body
OEM Connector: Not Available
Service Connector: -
Description: 1-Way

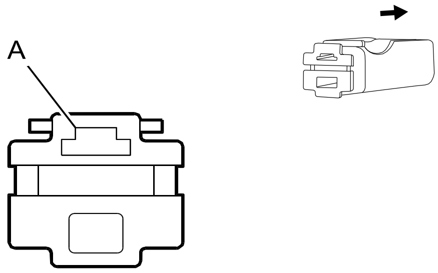
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	No Tool Required	No Tool Required	Not Required	Not Required	Not Required	Not Required

E18L Rear Defogger Grid - Left X2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	—	BK	3950	Ground	I	—

E18R Rear Defogger Grid X1



Connector Part Information

Harness Type: Body
OEM Connector: 7123-5014-30
Service Connector: 19367647
Description: 1-Way F 250 Series (BK)

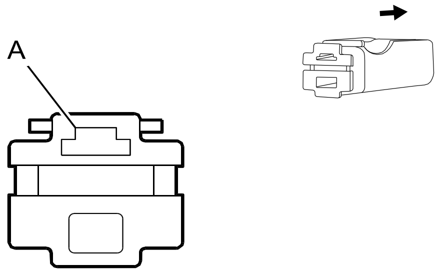
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-42 (RD)	No Tool Required	Not Required	Not Required	Not Required	Not Required

E18R Rear Defogger Grid X1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	2.5	BN/VT	293	Rear Defog Element Control	I	—

E18R Rear Defogger Grid X2



4248834

Connector Part Information

Harness Type: Body
OEM Connector: 7123-5014-30
Service Connector: 19367647
Description: 1-Way F 250 Series (BK)

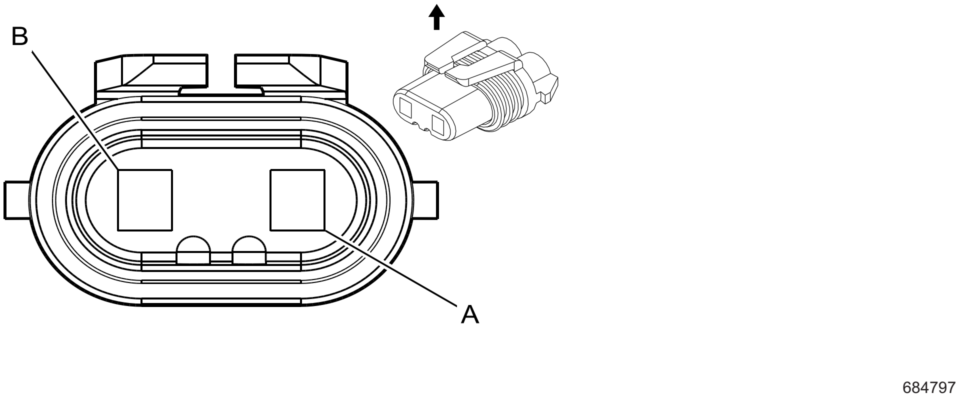
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-18 (BK)	No Tool Required	Not Required	Not Required	Not Required	Not Required

E18R Rear Defogger Grid X2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	4	BK	3950	Ground	I	—

E29LF Fog Lamp - Left Front (ULV)



Connector Part Information

Harness Type: Forward Lamp
OEM Connector: 12059183
Service Connector: -
Description: 2-Way F 280 Metri-Pack Series, Sealed (BK)

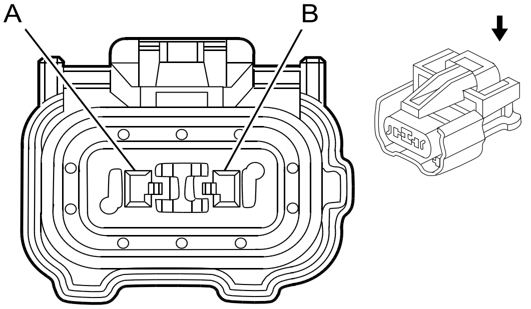
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-4A (PU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

E29LF Fog Lamp - Left Front (ULV)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.75	BN/VT	2234	Front Fog Lamp Control	I	—
B	0.75	BK	1150	Ground	I	—

E29LF Fog Lamp - Left Front (-ULV)



1862046

Connector Part Information

Harness Type: Forward Lamp
OEM Connector: 13513272
Service Connector: 19153187
Description: 2-Way F 150 GT Series, Sealed (NA)

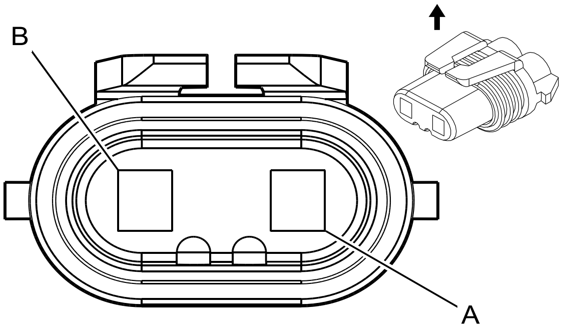
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-2A (GY)	No Tool Required	Not Required	Not Required	Not Required	Not Required

E29LF Fog Lamp - Left Front (-ULV)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.75	BN/VT	2234	Front Fog Lamp Control	I	—
B	0.75	BK	1150	Ground	I	—

E29RF Fog Lamp - Right Front (ULV)



684797

Connector Part Information

Harness Type: Forward Lamp
OEM Connector: 12059183
Service Connector: -
Description: 2-Way F 280 Metri-Pack Series, Sealed (BK)

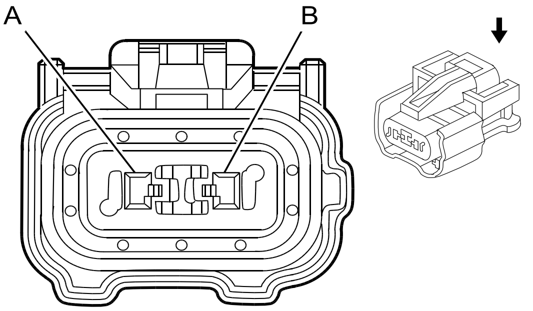
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-4A (PU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

E29RF Fog Lamp - Right Front (ULV)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.75	BN/VT	2234	Front Fog Lamp Control	I	—
B	0.75	BK	1250	Ground	I	—

E29RF Fog Lamp - Right Front (-ULV)



1862046

Connector Part Information

Harness Type: Forward Lamp
OEM Connector: 13513272
Service Connector: 19153187
Description: 2-Way F 150 GT Series, Sealed (NA)

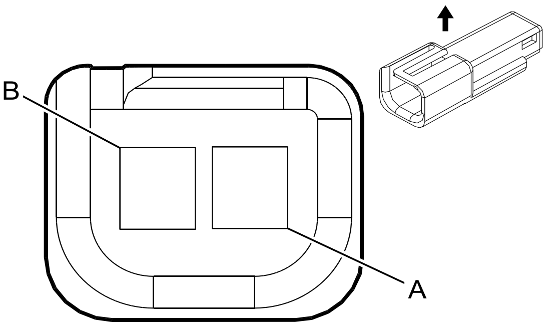
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-2A (GY)	No Tool Required	Not Required	Not Required	Not Required	Not Required

E29RF Fog Lamp - Right Front (-ULV)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.75	BN/VT	2234	Front Fog Lamp Control	I	—
B	0.75	BK	1250	Ground	I	—

E31L Sunshade Mirror Lamp - Left



35441

Connector Part Information

Harness Type: Headliner
OEM Connector: 12047663
Service Connector: 13584278
Description: 2-Way M 150 Metri-Pack Series (BK)

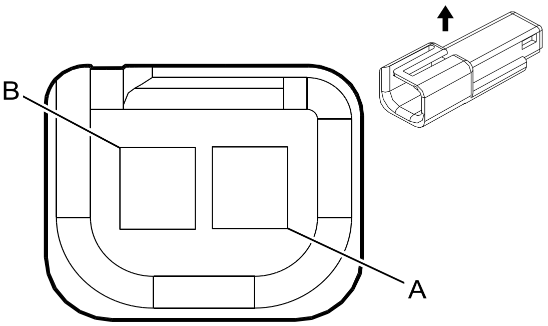
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-3 (GY)	No Tool Required	Not Required	Not Required	Not Required	Not Required

E31L Sunshade Mirror Lamp - Left

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.5	WH/BN	6815	Inadvertent Power Control	I	—
B	0.5	BK	3150	Ground	I	—

E31R Sunshade Mirror Lamp - Right



35441

Connector Part Information

Harness Type: Headliner
OEM Connector: 12047663
Service Connector: 13584278
Description: 2-Way M 150 Metri-Pack Series (BK)

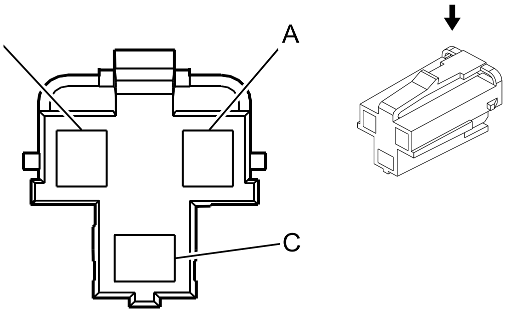
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-3 (GY)	No Tool Required	Not Required	Not Required	Not Required	Not Required

E31R Sunshade Mirror Lamp - Right

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.5	WH/BN	6815	Inadvertent Power Control	I	—
B	0.5	BK	3150	Ground	I	—

E32 Cigarette Lighter Receptacle (SAO)



362748

Connector Part Information

Harness Type: Floor Console
OEM Connector: 12176836
Service Connector: Service by Harness - See Part Catalog
Description: 3-Way F 280 Metri-Pack Series (GY)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-4A (PU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

E32 Cigarette Lighter Receptacle (SAO)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	1.5	VT	1701	Retained Accessory Power Ignition	I	—
B	—	—	—	Not Occupied	—	—
C	1.5	BK	2050	Ground	I	—

E33L Cargo Lamp - Left (S0Y)

—

Connector Part Information

Harness Type: Center High Mounted Stop Lamp
OEM Connector: Not Available
Service Connector: Service by Harness - See Part Catalog
Description: 3-Way

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	Not Available	No Tool Required	Not Required	Not Required	Not Required	Not Required

E33L Cargo Lamp - Left (S0Y)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.75	WH/VT	1430	Exterior Courtesy Lamp Control	I	—
B	0.75	BK/WH	751	Signal Ground	I	—

E33R Cargo Lamp - Right (S0Y)

—

Connector Part Information

Harness Type: Center High Mounted Stop Lamp
OEM Connector: Not Available
Service Connector: Service by Harness - See Part Catalog
Description: 3-Way

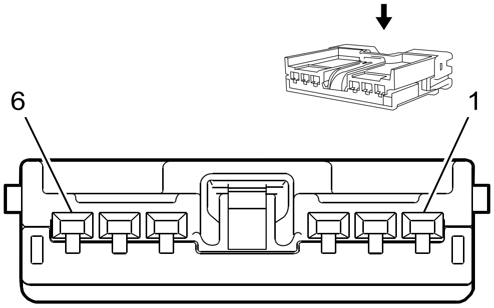
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	Not Available	No Tool Required	Not Required	Not Required	Not Required	Not Required

E33R Cargo Lamp - Right (S0Y)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.75	WH/VT	1430	Exterior Courtesy Lamp Control	I	—
B	0.75	BK/WH	751	Signal Ground	I	—

E36AH Dome Lamp (TCA)



2180199

Connector Part Information

Harness Type: Headliner
OEM Connector: 6098-5985
Service Connector: 13576538
Description: 6-Way F 1.5 Series (BK)

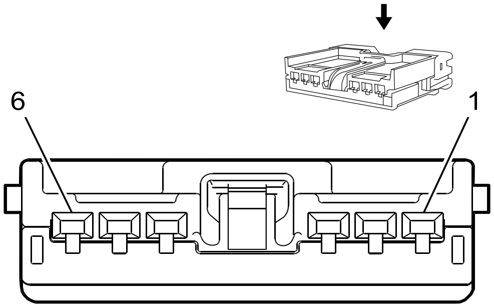
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	No Tool Required	No Tool Required	Not Required	Not Required	Not Required	Not Required

E36AH Dome Lamp (TCA)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	—	—	—	Not Occupied	—	—
2	0.5	GY	157	Interior Lamp Control	I	—
3	—	—	—	Not Occupied	—	—
4	0.35	GY/GN	328	Interior Lamp Defeat Switch Signal	I	—
5	0.35	GY	156	Courtesy Lamp Switch Signal	I	—
6	0.5	BK	3150	Ground	I	—

E37F Dome/Reading Lamps - Front



2180199

Connector Part Information

Harness Type: Headliner
OEM Connector: 6098-5985
Service Connector: 13576538
Description: 6-Way F 1.5 Series (BK)

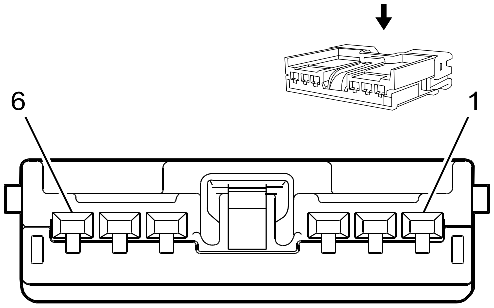
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-2A (GY)	No Tool Required	Not Required	Not Required	Not Required	Not Required

E37F Dome/Reading Lamps - Front

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	WH/BN	6815	Inadvertent Power Control	I	—
2	0.5	GY	157	Interior Lamp Control	I	—
3	0.5	YE	6817	LED Backlight Dimming Control	I	—
4	0.35	GY/L-GN	328	Interior Lamp Defeat Switch Signal	I	—
5	0.35	GY	156	Courtesy Lamp Switch Signal	I	—
6	0.5	BK	3150	Ground	I	—

E37R Dome/Reading Lamps - Rear



2180199

Connector Part Information

Harness Type: Headliner
OEM Connector: 6098-5985
Service Connector: 13576538
Description: 6-Way F 1.5 Series (BK)

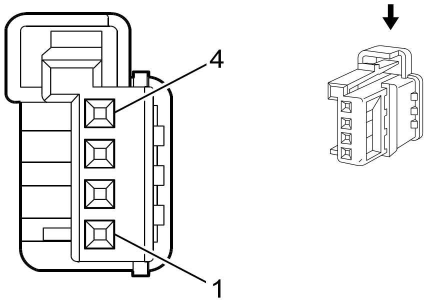
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-2A (GY)	No Tool Required	Not Required	Not Required	Not Required	Not Required

E37R Dome/Reading Lamps - Rear

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	WH/BN	6815	Inadvertent Power Control	I	—
2	0.5	GY	157	Interior Lamp Control	I	—
3 - 5	—	—	—	Not Occupied	—	—
6	0.5	BK	3150	Ground	I	—

E40 Electrical Auxiliary Heater X1



2179793

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 1379029-1
Service Connector: 13584096
Description: 4-Way F 0.64 Micro-Quadlock Series (BK)

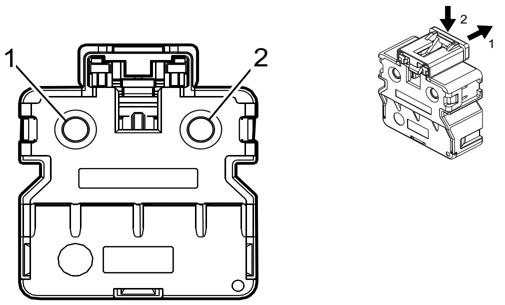
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-64B (LT BU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

E40 Electrical Auxiliary Heater X1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	VT	3195	Auxiliary Heater Control	I	—
2	0.35	VT/GY	539	Run/Crank Ignition 1 Voltage	I	—
3 - 4	—	—	—	Not Occupied	—	—

E40 Electrical Auxiliary Heater X2 (LWN)



4322228

Connector Part Information

Harness Type: HVAC
OEM Connector: C380-10E106 241 2
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way F 3.6 HCC Series (BK)

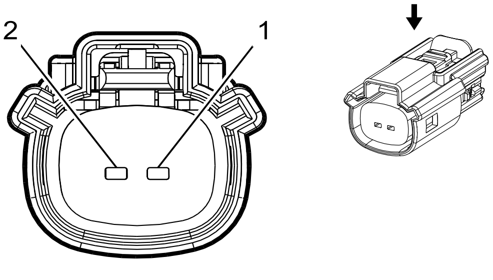
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	-	No Tool Required	Not Required	Not Required	Not Required	Not Required

E40 Electrical Auxiliary Heater X2 (LWN)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	10	BK	1350	Ground	I	—
2	10	RD/GY	—	—	I	—

E41 Engine Coolant Thermostat Heater



2474713

Connector Part Information

Harness Type: Engine
OEM Connector: 33471-0206
Service Connector: 13577534
Description: 2-Way F 1.5 Series, Sealed (BK)

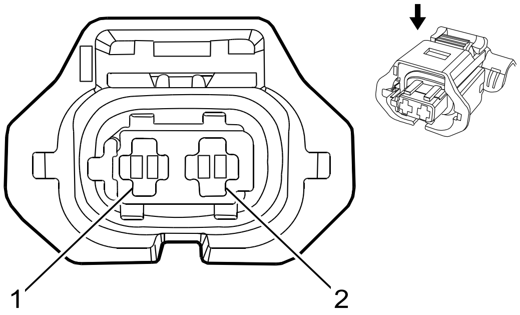
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-2A (GY)	No Tool Required	Not Required	Not Required	Not Required	Not Required

E41 Engine Coolant Thermostat Heater

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	VT/L-BU	5293	Powertrain Main Relay Fused Supply 4	I	—
2	0.5	L-BU	6814	Thermostat Engine Cool Control	I	—

E45 Positive Crankcase Ventilation Heater



2231613

Connector Part Information

Harness Type: Engine
OEM Connector: 13595623
Service Connector: 13355762
Description: 2-Way F 2.8 ATS Series, Sealed (BK)

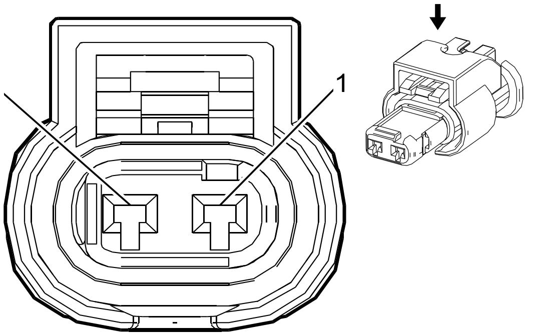
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-4A (PU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

E45 Positive Crankcase Ventilation Heater

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	YE/L-BU	1497	Crankcase Ventilation (Blowby) Heater Control Signal	I	—
2	0.5	VT/L-BU	5293	Powertrain Main Relay Fused Supply 4	I	—

E52 Reductant Line Heater (LWN)



2474752

Connector Part Information

Harness Type: Reductant Assembly
OEM Connector: 1-1823608-5
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way F 1.2 MCP Series, Sealed (BK)

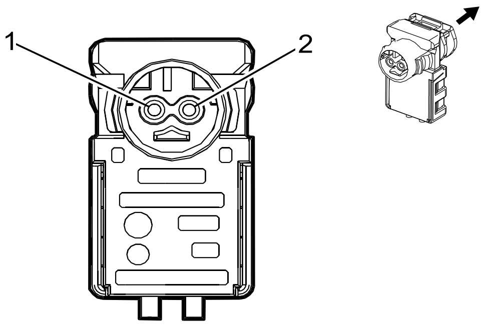
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	Not Available	No Tool Required	Not Required	Not Required	Not Required	Not Required

E52 Reductant Line Heater (LWN)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	1.0	BK/WH	9016	Reductant Line Heater Low Control	I	—
2	1.0	GY/WH	9017	Reductant Line Heater Control	I	—

F101 Passenger Instrument Panel Air Bag X1



3214032

Connector Part Information

Harness Type: Instrument Panel Air Bag
OEM Connector: 13580454
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way F AK-2 Series (L-GN with YE Cover)

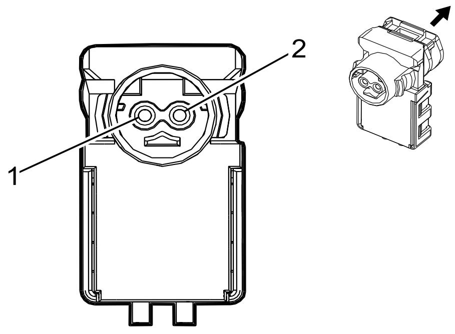
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	Not Available	No Tool Required	Not Required	Not Required	Not Required	Not Required

F101 Passenger Instrument Panel Air Bag X1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	—	YE/OG	3025	Passenger IP Module Stage 1 High Control	I	—
2	—	OG/WH	3024	Passenger IP Module Stage 1 Low Control	I	—

F101 Passenger Instrument Panel Air Bag X2



3214033

Connector Part Information

Harness Type: Instrument Panel Air Bag
OEM Connector: 13580453
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way F AK-2 Series (YE with YE Cover)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	Not Available	No Tool Required	Not Required	Not Required	Not Required	Not Required

F101 Passenger Instrument Panel Air Bag X2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	—	GY	3027	Passenger IP Module Stage 2 High Control	I	—
2	—	OG/VT	3026	Passenger IP Module Stage 2 Low Control	I	—

F101 Passenger Instrument Panel Air Bag X3

—

Connector Part Information

Harness Type: Instrument Panel Air Bag
OEM Connector: Not Available
Service Connector: Service by Harness - See Part Catalog
Description: 1-Way

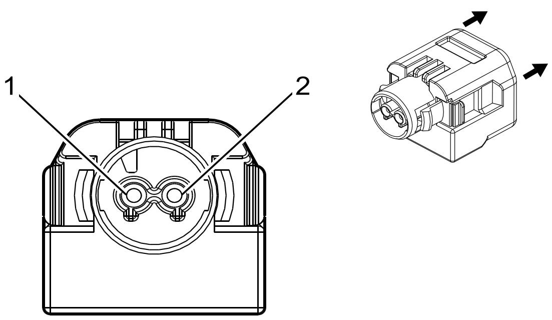
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	Not Available	No Tool Required	Not Required	Not Required	Not Required	Not Required

F101 Passenger Instrument Panel Air Bag X3

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	—	BK/WH	2051	Signal Ground	I	—

F105L Roof Rail Air Bag - Left



4676225

Connector Part Information

Harness Type: Body
OEM Connector: 1-1801934-3
Service Connector: 13599241
Description: 2-Way F 1.0 Series (GY with YE Cover)

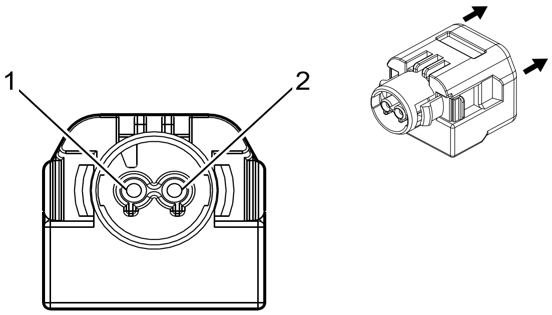
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	No Tool Required	No Tool Required	Not Required	Not Required	Not Required	Not Required

F105L Roof Rail Air Bag - Left

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	OG/L-GN	5019	Left Front Head Curtain Module High Control	I	—
2	0.5	VT/OG	5020	Left Front Head Curtain Module Low Control	I	—

F105R Roof Rail Air Bag - Right



4676225

Connector Part Information

Harness Type: Body
OEM Connector: 1-1801934-3
Service Connector: 13599241
Description: 2-Way F 1.0 Series (GY with YE Cover)

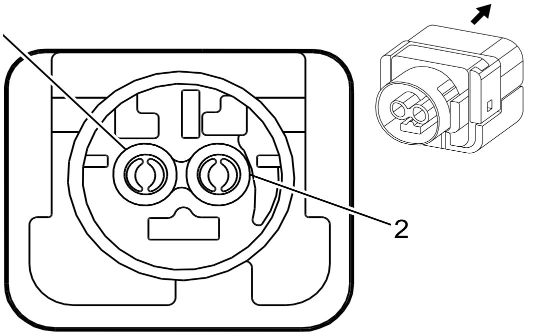
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	No Tool Required	No Tool Required	Not Required	Not Required	Not Required	Not Required

F105R Roof Rail Air Bag - Right

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	OG/GY	5021	Right Front Head Curtain Module High Control	I	—
2	0.5	WH/OG	5022	Right Front Head Curtain Module Low Control	I	—

F106D Seat Side Air Bag - Driver



2231620

Connector Part Information

Harness Type: Driver Seat Back
OEM Connector: PPI0001142
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way F FPB 180-1 Series (BK with YE Cover)

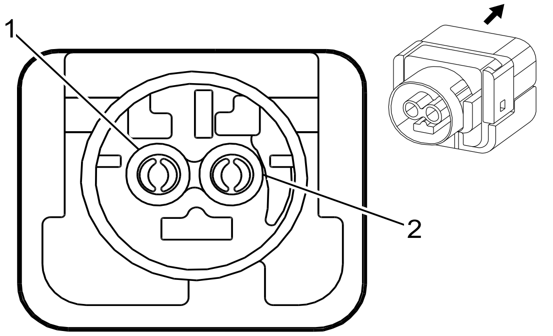
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	Not Available	No Tool Required	Not Required	Not Required	Not Required	Not Required

F106D Seat Side Air Bag - Driver

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	OG/BU	3068	Driver Side Impact Module High Control	I	—
2	0.5	GN/OG	3069	Driver Side Impact Module Low Control	I	—

F106P Seat Side Air Bag - Passenger



2231620

Connector Part Information

Harness Type: Passenger Seat Back
OEM Connector: PPI0001142
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way F FPB 180-1 Series (BK with YE Cover)

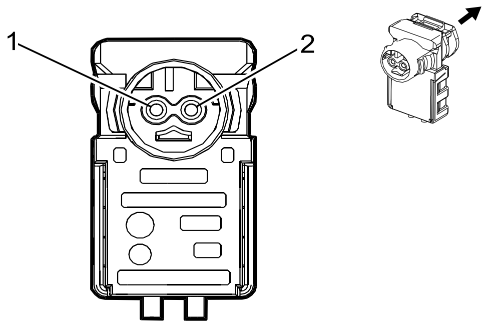
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	Not Available	No Tool Required	Not Required	Not Required	Not Required	Not Required

F106P Seat Side Air Bag - Passenger

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	OG/GY	3066	Passenger Side Impact Module High Control	I	—
2	0.5	BN/OG	3067	Passenger Side Impact Module Low Control	I	—

F107 Steering Wheel Air Bag X1



3214032

Connector Part Information

Harness Type: Steering Wheel Air Bag Coil
OEM Connector: 13580454
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way F AK-2 Series (L-GN with YE Cover)

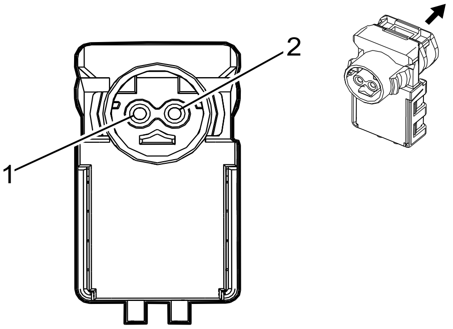
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	Not Available	No Tool Required	Not Required	Not Required	Not Required	Not Required

F107 Steering Wheel Air Bag X1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	TN	3020	Steering Wheel Module Stage 1 Low Control	I	—
2	0.5	BN	3021	Steering Wheel Module Stage 1 High Control	I	—

F107 Steering Wheel Air Bag X2



3214033

Connector Part Information

Harness Type: Steering Wheel Air Bag Coil
OEM Connector: 13580453
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way F AK-2 Series (YE with YE Cover)

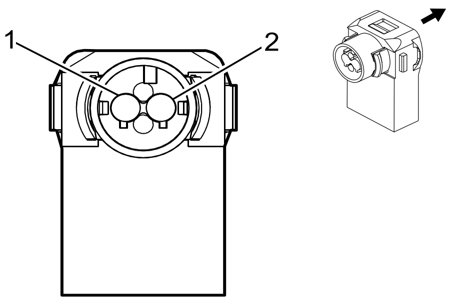
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	Not Available	No Tool Required	Not Required	Not Required	Not Required	Not Required

F107 Steering Wheel Air Bag X2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	WH	3022	Steering Wheel Module Stage 2 Low Control	I	—
2	0.35	PK	3023	Steering Wheel Module Stage 2 High Control	I	—

F112D Seat Belt Retractor Pretensioner - Driver (Crew Cab)



4241364

Connector Part Information

Harness Type: Body
OEM Connector: 33345778
Service Connector: 19355490
Description: 2-Way F ABX-5 Series (PU with YE Cover)

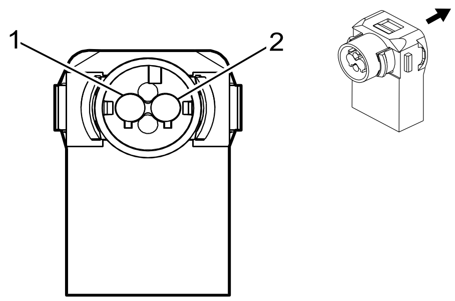
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	No Tool Required	No Tool Required	Not Required	Not Required	Not Required	Not Required

F112D Seat Belt Retractor Pretensioner - Driver (Crew Cab)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	OG/WH	3477	Driver Seat Belt Retractor Pretensioner High Control	I	—
2	0.5	GY/OG	3478	Driver Seat Belt Retractor Pretensioner Low Control	I	—

F112D Seat Belt Retractor Pretensioner - Driver (Extended Cab)



4241364

Connector Part Information

Harness Type: Left Rear Door
OEM Connector: 13516029
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way F ABX-5 Series (PU with YE Cover)

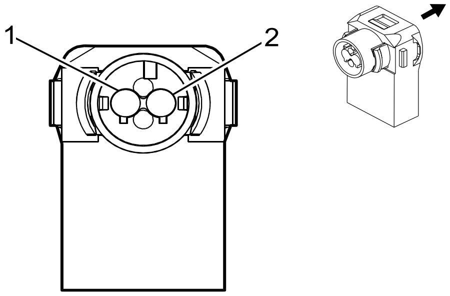
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	Not Available	No Tool Required	Not Required	Not Required	Not Required	Not Required

F112D Seat Belt Retractor Pretensioner - Driver (Extended Cab)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	OG/WH	3477	Driver Seat Belt Retractor Pretensioner High Control	I	—
2	0.5	GY/OG	3478	Driver Seat Belt Retractor Pretensioner Low Control	I	—

F112P Seat Belt Retractor Pretensioner - Passenger (Crew Cab)



4241364

Connector Part Information

Harness Type: Body
OEM Connector: 13516029
Service Connector: -
Description: 2-Way F ABX-5 Series (PU with YE Cover)

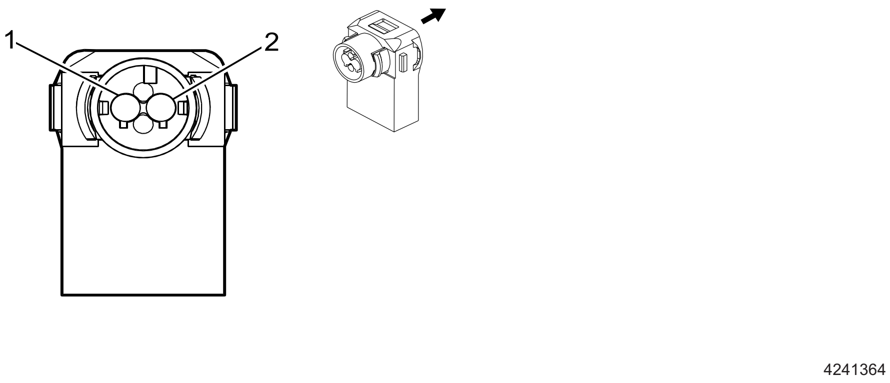
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	No Tool Required	No Tool Required	Not Required	Not Required	Not Required	Not Required

F112P Seat Belt Retractor Pretensioner - Passenger (Crew Cab)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	OG/L-GN	3475	Passenger Seat Belt Retractor Pretensioner High Control	I	—
2	0.5	WH/OG	3476	Passenger Seat Belt Retractor Pretensioner Low Control	I	—

F112P Seat Belt Retractor Pretensioner - Passenger (Extended Cab)



Connector Part Information

Harness Type: Right Rear Door
OEM Connector: 33345778
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way F ABX-5 Series (PU with YE Cover)

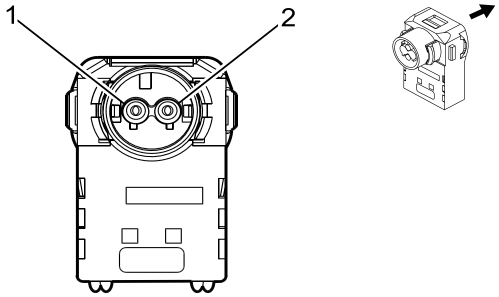
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	Not Available	No Tool Required	Not Required	Not Required	Not Required	Not Required

F112P Seat Belt Retractor Pretensioner - Passenger (Extended Cab)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	OG/L-GN	3475	Passenger Seat Belt Retractor Pretensioner High Control	I	—
2	0.5	WH/OG	3476	Passenger Seat Belt Retractor Pretensioner Low Control	I	—

F113D Seat Belt Anchor Pretensioner - Driver



4231869

Connector Part Information

Harness Type: Left Rear Door
OEM Connector: 33345777
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way F ABX-5 Series (PK with YE Cover)

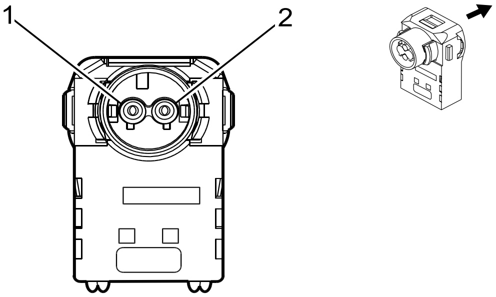
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	Not Available	No Tool Required	Not Required	Not Required	Not Required	Not Required

F113D Seat Belt Anchor Pretensioner - Driver

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	OG/YE	3481	Driver Seat Belt Anchor Pretensioner High Control	I	—
2	0.5	VT/OG	3482	Driver Seat Belt Anchor Pretensioner Low Control	I	—

F113P Seat Belt Anchor Pretensioner - Passenger



4231869

Connector Part Information

Harness Type: Right Rear Door
OEM Connector: 33345777
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way F ABX-5 Series (PK with YE Cover)

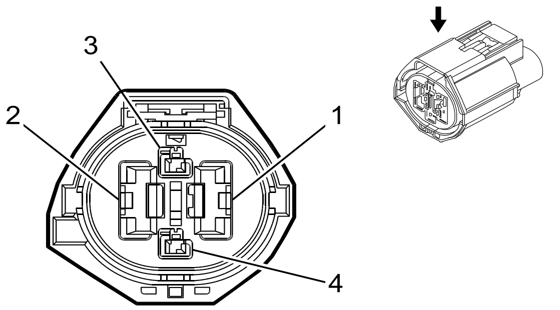
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	Not Available	No Tool Required	Not Required	Not Required	Not Required	Not Required

F113P Seat Belt Anchor Pretensioner - Passenger

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	OG/BN	3479	Passenger Seat Belt Anchor Pretensioner High Control	I	—
2	0.5	GY/OG	3480	Passenger Seat Belt Anchor Pretensioner Low Control	I	—

G10 Cooling Fan Motor (LCV/LGZ)



2394097

Connector Part Information

Harness Type: Forward Lamp
OEM Connector: 7287-1404-10
Service Connector: 19181808
Description: 4-Way F 1.5, 9.5 Series, Sealed (D-GY)

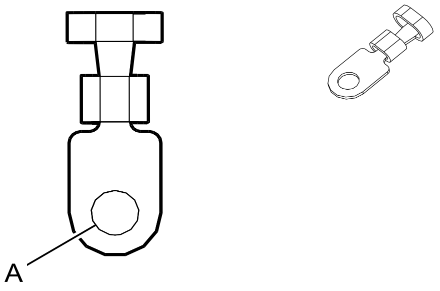
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-14 (GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required
II	Not Required	J-35616-22 (RD)	No Tool Required	Not Required	Not Required	Not Required	Not Required
III	Not Required	J-35616-42 (RD)	No Tool Required	Not Required	Not Required	Not Required	Not Required

G10 Cooling Fan Motor (LCV/LGZ)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	6	BK	1350	Ground	II	-BTV/T3U/UTJ
	6	BK	1350	Ground	III	-BTV/T3U/UTJ
2	6	RD/GY	4840	Battery Positive Voltage	II	-BTV/T3U/UTJ
	6	RD/GY	4840	Battery Positive Voltage	III	-BTV/T3U/UTJ
3	—	—	—	Not Occupied	—	—
4	0.5	WH/BK	2366	Cooling Fan Control Relay Speed Signal	I	—

G13 Generator X2



2892235

Connector Part Information

Harness Type: Generator Cable
OEM Connector: 15327720
Service Connector: Service by Cable Assembly — See Part Catalog
Description: 1-Way Ring Terminal

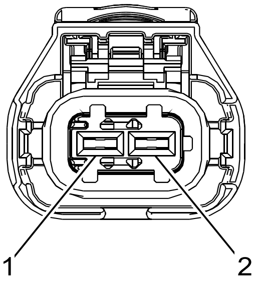
Terminal Part Information

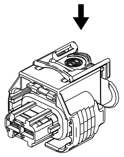
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	No Tool Required	No Tool Required	Not Required	Not Required	Not Required	Not Required

G13 Generator X2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	—	—	—	Not Occupied	—	—

G13 Generator X1 (LCV)





2577394

Connector Part Information

Harness Type: Engine
OEM Connector: 1928405521
Service Connector: 13384371
Description: 2-Way F 2.8 Series, Sealed (BK)

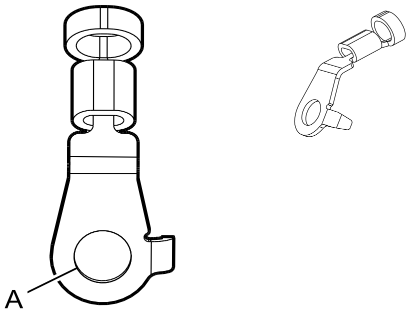
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-35 (VT)	No Tool Required	Not Required	Not Required	Not Required	Not Required

G13 Generator X1 (LCV)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	L-BU/WH	225	Generator Turn On Signal	I	—
2	0.5	GY	23	Generator Field Duty Cycle Signal	I	—

G13 Generator X2 (LCV)



4069685

Connector Part Information

Harness Type: Battery Cable
OEM Connector: 1194001
Service Connector: Service by Cable Assembly — See Part Catalog
Description: 1-Way Ring Terminal

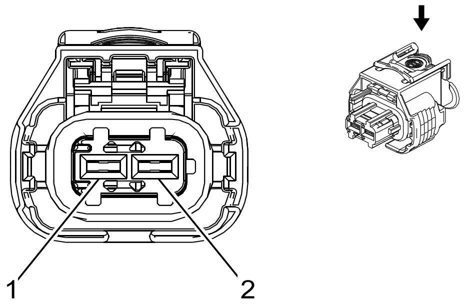
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	No Tool Required	No Tool Required	Not Required	Not Required	Not Required	Not Required

G13 Generator X2 (LCV)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	25	RD/YE	2	Battery Positive Voltage	I	—

G13 Generator X1 (LGZ)



2577394

Connector Part Information

Harness Type: Engine
OEM Connector: 1928405714
Service Connector: 13384371
Description: 2-Way F 2.8 Series, Sealed (BK)

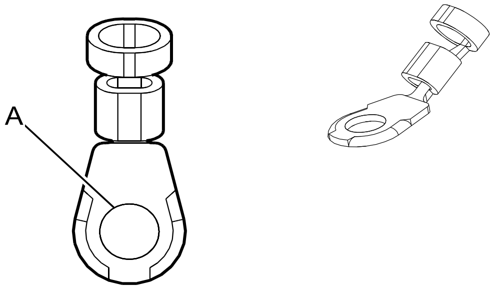
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-35 (VT)	No Tool Required	Not Required	Not Required	Not Required	Not Required

G13 Generator X1 (LGZ)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	L-BU/WH	225	Generator Turn On Signal	I	—
2	0.5	GY	23	Generator Field Duty Cycle Signal	I	—

G13 Generator X2 (LGZ)



4880299

Connector Part Information

Harness Type: Generator Cable
OEM Connector: 23398006
Service Connector: Service by Cable Assembly — See Part Catalog
Description: 1-Way Ring Terminal

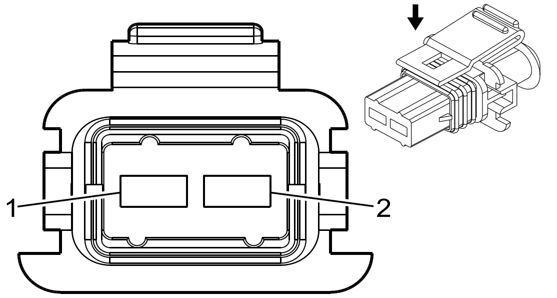
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	No Tool Required	No Tool Required	Not Required	Not Required	Not Required	Not Required

G13 Generator X2 (LGZ)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	25	RD/YE	2	Battery Positive Voltage	I	—

G13 Generator X1 (LWN)



1522871

Connector Part Information

Harness Type: Engine
OEM Connector: 1928403137
Service Connector: 13585849
Description: 2-Way F Junior Power Timer Series, Sealed (BK)

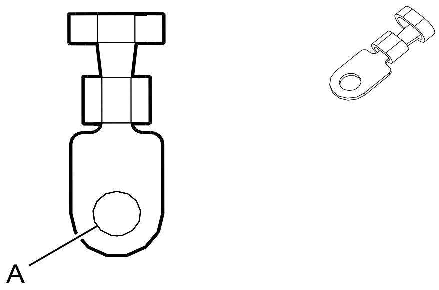
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-35 (VT)	No Tool Required	Not Required	Not Required	Not Required	Not Required

G13 Generator X1 (LWN)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	BN	25	Charge Indicator Control	I	—
2	0.5	GY	23	Generator Field Duty Cycle Signal	I	—

G13 Generator X2 (LWN)



2892235

Connector Part Information

Harness Type: Generator Cable
OEM Connector: 15327720
Service Connector: Service by Cable Assembly — See Part Catalog
Description: 1-Way Ring Terminal

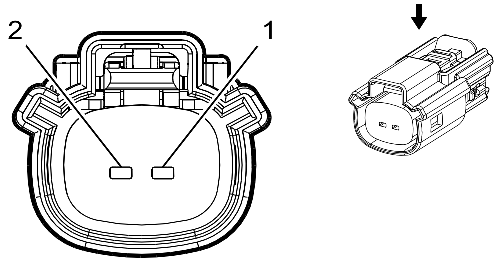
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	No Tool Required	No Tool Required	Not Required	Not Required	Not Required	Not Required

G13 Generator X2 (LWN)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	25	RD/YE	2	Battery Positive Voltage	I	—

G18 High Pressure Fuel Pump



2474713

Connector Part Information

Harness Type: Engine
OEM Connector: 33471-0206
Service Connector: 13577534
Description: 2-Way F 1.5 Series, Sealed (BK)

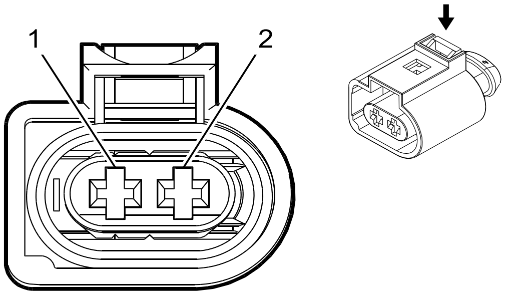
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-2A (GY)	No Tool Required	Not Required	Not Required	Not Required	Not Required

G18 High Pressure Fuel Pump

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5 0.5	YE VT/BK	7301 7300	High Pressure Fuel Pump Actuator High - Control High Pressure Fuel Pump Actuator Low - Control	I I	LCV LGZ
2	0.5 0.5	VT/BK YE	7300 7301	High Pressure Fuel Pump Actuator Low - Control High Pressure Fuel Pump Actuator High - Control	I I	LCV LGZ

G24 Windshield Washer Pump



2474738

Connector Part Information

Harness Type: Forward Lamp
OEM Connector: 1-1355200-1
Service Connector: 13576532
Description: 2-Way F 2.8 MDK5 Series, Sealed (BK)

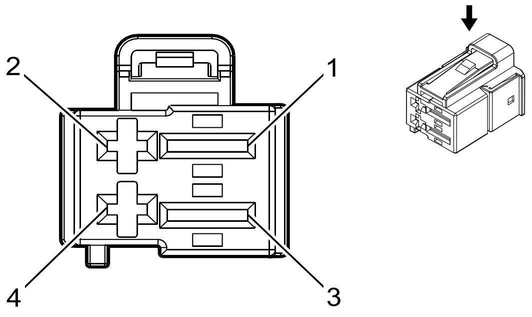
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-4A (PU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

G24 Windshield Washer Pump

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.75	GY/VT	228	Windshield Washer Pump Control	I	—
2	0.75	BK	1150	Ground	I	—

K8 Blower Motor Control Module



3924403

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 1-1418507-2
Service Connector: 19352990
Description: 4-Way F 2.8, 6.3 MCON Series (BK)

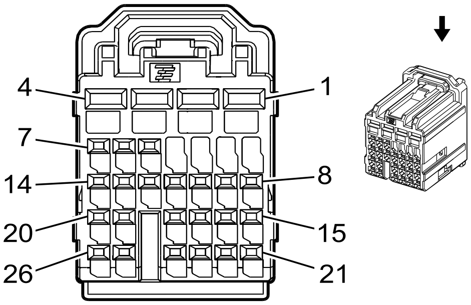
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-40 (BU)	No Tool Required	Not Required	Not Required	Not Required	Not Required
II	Not Required	J-35616-4A (PU)	No Tool Required	Not Required	Not Required	Not Required	Not Required
III	Not Required	-	No Tool Required	Not Required	Not Required	Not Required	Not Required

K8 Blower Motor Control Module

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	5	BK	2250	Ground	III	—
2	—	—	—	Not Occupied	—	—
3	2.5	RD/VT	542	Battery Positive Voltage	I	—
4	0.35	L-BU/GY	754	Blower Motor Speed Control	II	—

K9 Body Control Module X1



2537268

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 2098067-1
Service Connector: 13576031
Description: 26-Way F 0.64, 2.8 Series (NA)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13575578	J-35616-35 (VT)	J-38125-553	8100-4445	Sumitomo 22	F	D
II	13582297	J-35616-64B (LT BU)	J-38125-22	Not Available	Not Available	Not Available	Not Available
III	13582326	J-35616-35 (VT)	J-38125-553	8100-4444	Sumitomo 22	2	A

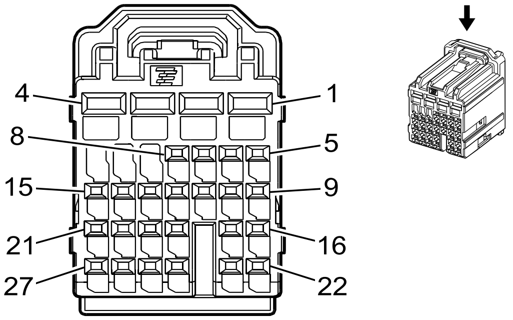
K9 Body Control Module X1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.75	BK	2150	Ground	III	—
2	2.5	RD/L-GN	2440	Battery Positive Voltage	I	—
3	2.5	RD/YE	2340	Battery Positive Voltage	I	—
4	0.75	RD/BN	2240	Battery Positive Voltage	III	—
5	0.35	WH	6816	Indicator Dimming Control	II	—
6	—	—	—	Not Occupied	—	—
7	0.35	BK/YE	5005	Instrument Panel Lamp Dimmer Switch Low Reference	II	—
8 - 9	—	—	—	Not Occupied	—	—
10	0.35	L-BU/YE	6844	ABS/TCS Hill Descent Control Switch Signal	II	—
11	0.35	L-GN/BN	306	Headlamp Switch Headlamps Off Signal Control	II	—
12	—	—	—	Not Occupied	—	—
13	0.35	L-BU/RD	1688	5V Reference	II	—
14	0.35	GY/L-GN	328	Interior Lamp Defeat Switch Signal	II	—
15	0.35	L-BU/GY	192	Front Fog Lamp Switch Signal	II	—
16	0.35	WH/VT	103	Headlamp Switch On Signal	II	—
17 - 18	—	—	—	Not Occupied	—	—
19	0.35	BK/BN	5360	Brake Apply Sensor Low Reference	II	—

K9 Body Control Module X1 (cont'd)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
20	—	—	—	Not Occupied	—	—
21	0.35	GY	728	Security Indicator Control	II	—
22	0.35	L-GN/GY	13	Headlamp Switch Park Lamp Signal	II	—
23	—	—	—	Not Occupied	—	—
24	0.5	WH	2501	High Speed GMLAN Serial Data (-) 1	II	—
25	0.5	L-BU	2500	High Speed GMLAN Serial Data (+) 1	II	—
26	0.35	L-BU/WH	3275	Remote Function Actuator Receive Signal	II	—

K9 Body Control Module X2



2537269

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 2098067-2
Service Connector: 13576032
Description: 27-Way F 0.64, 2.8 Series (BU)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13575578	J-35616-35 (VT)	J-38125-553	8100-4445	Sumitomo 22	F	D
II	13582297	J-35616-64B (LT BU)	J-38125-22	Not Available	Not Available	Not Available	Not Available
III	13582326	J-35616-35 (VT)	J-38125-553	8100-4444	Sumitomo 22	2	A

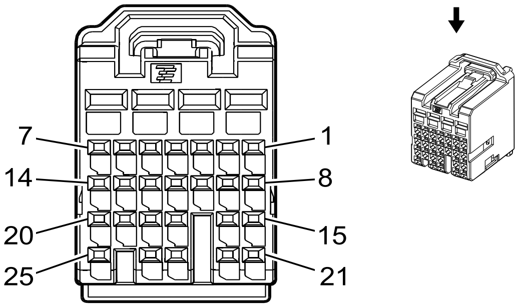
K9 Body Control Module X2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.75	RD/WH	2040	Battery Positive Voltage	III	—
2	0.75	BK	2150	Ground	III	—
3	—	—	—	Not Occupied	—	—
4	2.5	RD/VT	4040	Battery Positive Voltage	I	—
5	0.5	GY	157	Interior Lamp Control	II	—
6	0.35	GY	5697	Child Lockout Indicator Control	II	—
7	0.35	L-BU/YE	5361	Brake Apply Sensor Signal	II	—
8	0.5	YE	6817	LED Backlight Dimming Control	II	—
9	0.35	YE/GY	44	Instrument Panel Lamp Dimmer Switch Signal	II	—
10	0.35	WH/L-BU	278	Ambient Light Sensor Signal	II	—
11	0.35	VT/YE	5526	Tap Up/Tap Down Switch Signal	II	—
12	—	—	—	Not Occupied	—	—
13	0.35	WH	5359	Brake Apply Sensor Control	II	—
14	0.35	L-BU/VT	1788	Traction Control Switch Signal 1	II	—
15	0.35	BN/WH	781	Driver Door Lock Switch Unlock Signal	II	—
16	0.35	GY	3273	Remote Function Actuator Low Reference	II	—
17	—	—	—	Not Occupied	—	—

K9 Body Control Module X2 (cont'd)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
18	0.35	YE/BN	3265	Child Security Lock Switch Signal	II	—
19	0.35	BN/YE	780	Driver Door Lock Switch Lock Signal	II	—
20	0.5	WH/L-BU	3691	Trailer Brake Apply Signal	II	—
21	0.5	L-GN/GY	6135	Local Interconnect Network Serial Data Bus 4	II	—
22	0.5	L-GN	5060	Low Speed GMLAN Serial Data	II	—
23	0.35	WH	2501	High Speed GMLAN Serial Data (-) 1	II	—
24	0.35	L-BU	2500	High Speed GMLAN Serial Data (+) 1	II	—
25	0.35	GY/WH	3272	Remote Function Actuator Control	II	—
26	0.35	L-GN/WH	111	Hazard Switch Signal	II	—
27	0.35	YE/L-GN	3274	Remote Function Actuator Transmit Signal	II	—

K9 Body Control Module X3



2537274

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 2098067-7
Service Connector: 13576037
Description: 25-Way F 0.64, 2.8 Series (GN)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13582297	J-35616-64B (LT BU)	J-38125-22	Not Available	Not Available	Not Available	Not Available

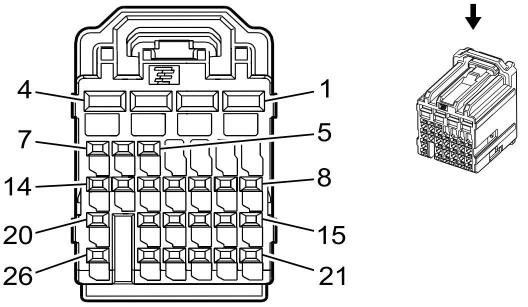
K9 Body Control Module X3

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	L-GN/GY	3277	Vehicle Anti-Theft System Immobilizer Low Reference	I	—
2	0.35	L-GN/VT	7533	Local Interconnect Network Serial Data Bus 11	I	—
3	0.35	GY/BK	3276	Vehicle Anti-Theft System Immobilizer Control	I	—
4	0.35	WH/RD	1444	12V Reference	I	—
5	0.5	VT/YE	4	Accessory Ignition Voltage	I	—
6	0.5	VT/BK	3	Run/Crank Ignition 1 Voltage	I	—
7	0.35	VT/YE	143	Accessory Ignition Voltage	I	—
8	0.35	L-GN	6818	Steering Wheel Resistor Ladder Signal 1	I	—
9	0.35	BN/L-GN	1884	Cruise Control Set/Coast/Resume/Accelerate Switch Signal	I	—
10	0.35	BK/GY	6009	Windshield Wiper Switch Low Reference	I	—
11	0.35	WH	524	Headlamp Dimmer Switch High Beam Signal	I	—
12	0.35	WH/L-GN	663	Hazard Switch Left Turn Signal	I	—
13	0.35	YE/L-BU	1714	Windshield Wiper Switch Low Signal	I	—
14	0.35	L-BU/GY	553	Shift Select Switch Performance Signal	I	—
15	0.5	WH/VT	1020	Off/Run/Crank Ignition Voltage	I	—
16	0.35	GY/L-GN	5737	Adaptive Cruise Control Gap Up/Down Switch Signal	I	—
17	0.35	YE/BN	307	Headlamp Switch Flash To Pass Signal	I	—
18	0.35	L-GN/WH	3287	Horn Switch Signal	I	—
19	0.5	L-GN/WH	7527	Local Interconnect Network Serial Data Bus 5	I	—

K9 Body Control Module X3 (cont'd)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
20	0.35	GY	1715	Windshield Wiper Switch High Signal	I	—
21	—	—	—	Not Occupied	—	—
22	0.5	WH/BK	1073	Ignition Key Resistor Signal	I	—
23	0.35	GY	5054	Sport Mode Switch Signal	I	—
24	0.35	VT/L-BU	664	Hazard Switch Right Turn Signal	I	—
25	0.35	WH/BK	94	Windshield Washer Switch Signal	I	—

K9 Body Control Module X4



2537270

Connector Part Information

Harness Type: Body
OEM Connector: 2098067-3
Service Connector: 13576033
Description: 26-Way F 0.64, 2.8 Series (BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13575578	J-35616-35 (VT)	J-38125-553	8100-4445	Sumitomo 22	Not Available	Not Available
II	13582297	J-35616-64B (LT BU)	J-38125-22	Not Available	Not Available	Not Available	Not Available
III	13582298	J-35616-64B (LT BU)	J-38125-22	Not Available	Not Available	Not Available	Not Available
IV	13582326	J-35616-35 (VT)	J-38125-553	8100-4444	Sumitomo 22	2	A

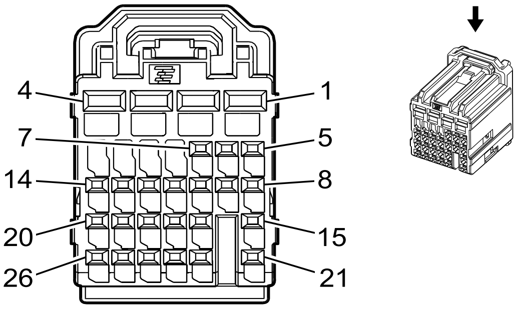
K9 Body Control Module X4

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	1.5	YE	312	Right Headlamp Low Beam Control	I	—
2	1.5	YE	712	Left Headlamp Low Beam Control	I	—
3	0.75	L-GN/VT	1315	Right Front Turn Signal Lamp Control	IV	—
4	1.5	WH/YE	7541	Right Rear Stop Lamp Control	I	—
5	0.5	GY/BN	309	Right Park Lamp Control	II	—
6	0.5	VT/GY	709	Left Park Lamp Control	II	—
7	0.5	BN/L-BU	2509	Left Rear Park Lamp Control	II	—
8 - 11	—	—	—	Not Occupied	—	—
12	0.35	GY/VT	755	RAP Relay Coil Control	II	—
13	0.5	L-GN/YE	6846	Rear License Lamp Control	II	—
14	0.5	BN/GY	2268	Windshield Washer Relay Control	II	—
15	0.35	L-GN/VT	5199	Run/Crank Relay Coil Control	II	—
16	0.5	GY	91	Windshield Wiper Motor Relay Coil Control	II	—
17	0.5	BN/L-GN	196	Windshield Wiper Motor Park Switch Signal	II	—
18	0.5	WH/YE	5075	Current Sensor Signal	II	—
19	—	—	—	Not Occupied	—	—

K9 Body Control Module X4 (cont'd)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
20	0.75	RD/BN	440	Battery Positive Voltage	III	—
21	0.5	L-BU/VT	5076	Current Sensor Control	II	—
22	0.35	VT/YE	5985	Accessory Wakeup Serial Data	II	—
23	0.5	WH/L-BU	5986	Serial Data Communication Enable	II	—
24	0.5	BN/L-GN	4064	Hood Status B Signal	II	—
25	—	—	—	Not Occupied	—	—
26	0.5	BK	1650	Ground	II	—

K9 Body Control Module X5



2537271

Connector Part Information

Harness Type: Body
OEM Connector: 2098067-4
Service Connector: 13576034
Description: 26-Way F 0.64, 2.8 Series (BN)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13575578	J-35616-35 (VT)	J-38125-553	8100-4445	Sumitomo 22	Not Available	Not Available
II	13582297	J-35616-64B (LT BU)	J-38125-22	Not Available	Not Available	Not Available	Not Available
III	13582326	J-35616-35 (VT)	J-38125-553	8100-4444	Sumitomo 22	2	A

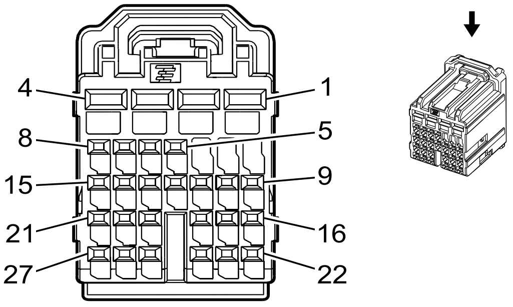
K9 Body Control Module X5

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	1.5	GY/YE	7542	Left Rear Stop Lamp Control	I	—
2	0.75	L-BU/WH	1314	Left Front Turn Signal Lamp Control	III	—
3	1.5	RD/WH	2740	Battery Positive Voltage	I	—
4	1.5	RD/VT	2640	Battery Positive Voltage	I	—
5	—	—	—	Not Occupied	—	—
6	0.5	BK/VT	5077	Current Sensor Low Reference	II	—
7	0.5	BN/GY	2609	Right Rear Park Lamp Control	II	—
8	0.5	L-BU/WH	5186	Left Trailer Turn Signal Lamp Control	II	—
9 - 11	—	—	—	Not Occupied	—	—
12	0.5	WH/L-BU	6311	Cruise/ETC/TCC Brake Signal	II	—
13	0.5	BN/WH	1317	Fog Lamp Relay Control	II	—
14	0.5	VT/BN	300	Run Ignition 3 Voltage	II	—
15	—	—	—	Not Occupied	—	—
16	0.5	VT/YE	3267	Child Security Lock Relay Control	II	—
17	0.5	YE/GY	5187	Right Trailer Turn Signal Lamp Control	II	—
18	0.5	BN/VT	1969	Headlamp High Beam Relay Control	II	—
19	0.5	BN/WH	28	Horn Relay Control	II	—

K9 Body Control Module X5 (cont'd)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
20 - 21	—	—	—	Not Occupied	—	—
22	0.5	L-BU	45	Park Lamp Relay Control	II	—
23	—	—	—	Not Occupied	—	—
24	0.5	WH/VT	860	Front Windshield Wiper Switch High Signal	II	—
25	—	—	—	Not Occupied	—	—
26	0.5	L-BU/BN	38	Backup Lamp Relay Control	II	—

K9 Body Control Module X6



2537272

Connector Part Information

Harness Type: Body
OEM Connector: 2098067-5
Service Connector: 13576035
Description: 27-Way F 0.64, 2.8 Series (PK)

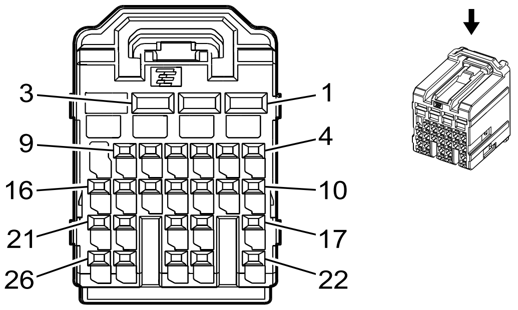
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13575578	J-35616-35 (VT)	J-38125-553	8100-4445	Sumitomo 22	Not Available	Not Available
II	13582297	J-35616-64B (LT BU)	J-38125-22	Not Available	Not Available	Not Available	Not Available
III	13582326	J-35616-35 (VT)	J-38125-553	8100-4444	Sumitomo 22	2	A

K9 Body Control Module X6

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.75	GY	5911	Door Lock Actuator Lock Control 2	III	—
2	1.5	GY/L-GN	3271	Door Lock Control 2	I	—
3	1.5	BK	3150	Ground	I	—
4	1.5 0.75	BN/YE BN/YE	294 294	Door Lock Actuator Unlock Control Door Lock Actuator Unlock Control	I III	CREW CAB EXTENDED CAB
5 - 8	—	—	—	Not Occupied	—	—
9	0.5	L-GN/L-BU	6133	Local Interconnect Network Serial Data Bus 2	II	—
10	0.5	L-GN/YE	6134	Local Interconnect Network Serial Data Bus 3	II	—
11 - 15	—	—	—	Not Occupied	—	—
16	0.5	L-GN/BN	6132	Local Interconnect Network Serial Data Bus 1	II	—
17 - 23	—	—	—	Not Occupied	—	—
24	0.5	L-BU	2500	High Speed GMLAN Serial Data (+) 1	II	—
25	0.5	WH	2501	High Speed GMLAN Serial Data (-) 1	II	—
26	—	—	—	Not Occupied	—	—
27	0.35	GY	747	Left Rear Door Ajar Switch Signal	II	—

K9 Body Control Module X7



2537273

Connector Part Information

- Harness Type: Body
- OEM Connector: 2098067-6
- Service Connector: 13576036
- Description: 26-Way F 0.64, 2.8 Series (GY)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13582297	J-35616-64B (LT BU)	J-38125-22	Not Available	Not Available	Not Available	Not Available
II	13582326	J-35616-35 (VT)	J-38125-553	8100-4444	Sumitomo 22	2	A

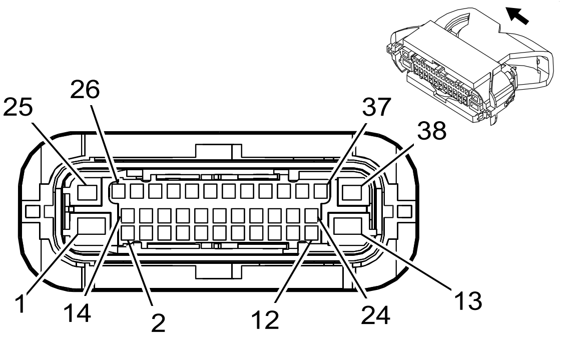
K9 Body Control Module X7

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	—	—	—	Not Occupied	—	—
2	0.75	WH/BN	6815	Inadvertent Power Control	II	—
3	0.75	L-GN/WH	24	Backup Lamp Control	II	—
4 - 5	—	—	—	Not Occupied	—	—
6	0.5	VT/BK	7553	Park Lock Solenoid Control	I	—
7	0.5	BN/WH	1429	Standing Lamp Relay Control	I	—
8	0.5	VT/WH	5065	Stop Lamp Relay Coil Control	I	—
9 - 10	—	—	—	Not Occupied	—	—
11	0.35	GY	748	Right Rear Door Ajar Switch Signal	I	—
12	0.35	BN/WH	3269	Child Security Lock Motor Status Signal Left Rear	I	—
13	0.5	WH/VT	5905	Key Capture/Column Lock Shift Position Signal	I	—
14	0.5	GY	158	Cargo Lamp Switch Signal	I	—
15	0.5	L-BU/VT	1134	Park Brake Switch Signal	I	—
16	0.5	WH/L-BU	3691	Trailer Brake Apply Signal	I	—
17	—	—	—	Not Occupied	—	—
18	0.35	GY/BK	3268	Child Security Lock Motor Status Signal Right Rear	I	—
19	0.35	GY	156	Courtesy Lamp Switch Signal	I	—
20	—	—	—	Not Occupied	—	—

K9 Body Control Module X7 (cont'd)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
21	0.35	YE/VT	244	Passenger Door Lock Switch Lock Control	I	—
22	—	—	—	Not Occupied	—	—
23	0.5	L-GN	5060	Low Speed GMLAN Serial Data	I	—
24	0.35	BN/VT	245	Passenger Door Lock Switch Unlock Control	I	—
25 - 26	—	—	—	Not Occupied	—	—

K17 Electronic Brake Control Module



3638282

Connector Part Information

Harness Type: Chassis
OEM Connector: 13655518
Service Connector: 19303771
Description: 38-Way F 1.5 CTS, 2.8 MCP, 4.8 MCP Series, Sealed (BK with BN Inner Connector)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I		J-35616-14 (GN)	J-38125-215A	Not Available	Not Available	Not Available	Not Available
II	13579921	J-35616-40 (BU)	J-38125-556	1241408-1	Lear 28	B	G
III	13582286	J-35616-35 (VT)	J-38125-557	1-968857-3	Lear 7	C	1
IV	-	J-35616-14 (GN)	J-38125-215A	Not Available	Not Available	Not Available	Not Available

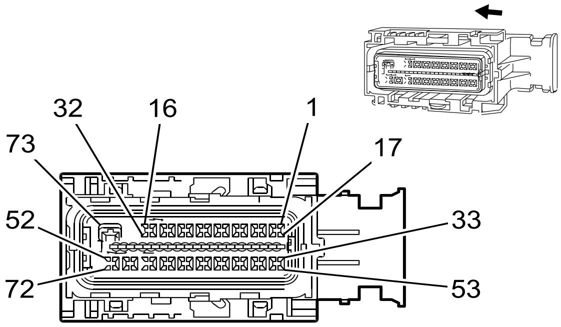
K17 Electronic Brake Control Module

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	4	RD/GY	1042	Battery Positive Voltage	II	—
2 - 3	—	—	—	Not Occupied	—	—
4	0.5	YE/VT	6030	Brake Vacuum Sensor Signal	IV	—
5	—	—	—	Not Occupied	—	—
6	0.5	WH/L-BU	5986	Serial Data Communication Enable	IV	—
7 - 8	—	—	—	Not Occupied	—	—
9	0.5	WH	2501	High Speed GMLAN Serial Data (-) 1	IV	—
10	0.5	WH	2501	High Speed GMLAN Serial Data (-) 1	IV	—
11	0.5	L-BU	2500	High Speed GMLAN Serial Data (+) 1	IV	—
12	0.5	L-BU	2500	High Speed GMLAN Serial Data (+) 1	IV	—
13	4 4	BK BK	550 550	Ground Ground	II I	LWN LWN+CREW CAB
14 - 15	—	—	—	Not Occupied	—	—
16	0.5	YE/RD	6031	Brake Vacuum Sensor 5V Reference	IV	—
17	—	—	—	Not Occupied	—	—

K17 Electronic Brake Control Module (cont'd)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
18	0.5	WH	6106	High Speed GMLAN Serial Data (-) 2	IV	—
19	0.5	L-BU/YE	6105	High Speed GMLAN Serial Data (+) 2	IV	—
20	—	—	—	Not Occupied	—	—
21	0.5	L-GN/GY	333	Brake Fluid Level Sensor Signal	IV	—
22	0.5	BK/YE	6032	Brake Vacuum Sensor Low Reference	IV	—
23 - 24	—	—	—	Not Occupied	—	—
25	2.5	RD/YE	442	Battery Positive Voltage	III	—
26	0.5	YE	872	Wheel Speed Sensor Signal Right Front	IV	—
27	0.5	GY/BN	7065	Wheel Speed Sensor Control Right Front	IV	—
28	0.5	BN	6305	Brake Vacuum Switch Signal	IV	—
29	0.5	GY/BK	7127	Wheel Speed Sensor Control Left Rear	IV	—
30	0.5	L-BU	884	Wheel Speed Sensor Signal Left Rear	IV	—
31 - 32	—	—	—	Not Occupied	—	—
33	0.5	VT	882	Wheel Speed Sensor Signal Right Rear	IV	—
34	0.5	GY/YE	7128	Wheel Speed Sensor Control Right Rear	IV	—
35	—	—	—	Not Occupied	—	—
36	0.5	GY/WH	7064	Wheel Speed Sensor Control Left Front	IV	—
37	0.5	GY	830	Wheel Speed Sensor Signal Left Front	IV	—
38	—	—	—	Not Occupied	—	—

K20 Engine Control Module X1 (LCV)



2470482

Connector Part Information

Harness Type: Engine
OEM Connector: 34566-0303
Service Connector: 13574782
Description: 73-Way F 0.64, 2.8 Series, Sealed (BK with BU Terminal Position Assurance)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13575796	J-35616-4A (PU)	J-38125-11A	7116-4151-02	Yazaki 9	C	1
II	13575812	J-35616-64B (LT BU)	J-38125-213	33467-0003	Delphi 23	Not Available	J

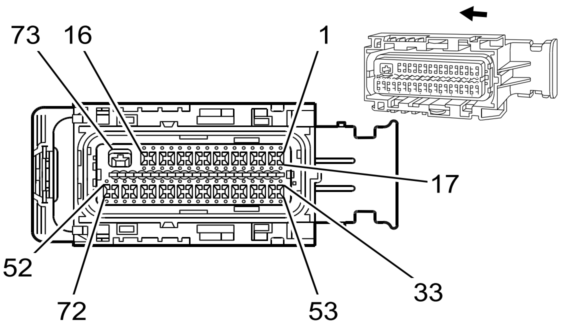
K20 Engine Control Module X1 (LCV)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1 - 6	—	—	—	Not Occupied	—	—
7	0.5	WH	7494	High Speed GMLAN Serial Data (-)3	II	—
8	0.5	L-BU/YE	7493	High Speed GMLAN Serial Data (+)3	II	—
9	0.5	L-BU	2500	High Speed GMLAN Serial Data (+) 1	II	—
10	0.5	WH	2501	High Speed GMLAN Serial Data (-) 1	II	—
11	0.5	BN/RD	1274	Accelerator Pedal Position 5V Reference 2	II	—
12	0.5	WH/RD	1164	Accelerator Pedal Position 5V Reference 1	II	—
13	0.5	VT/YE	5985	Accessory Wakeup Serial Data	II	—
14	0.5	VT/GY	139	Run/Crank Ignition 1 Voltage	II	—
15	0.5	RD/WH	140	Battery Positive Voltage	II	—
16	0.75	VT/L-BU	5290	Powertrain Main Relay Fused Supply 1	II	—
17 - 24	—	—	—	Not Occupied	—	—
25	0.5	BK/YE	5382	Brake Position Sensor Low Reference	II	—
26	0.5	BK/GY	6110	Clutch Apply Sensor Low Reference	II	—
27	0.5	BK/VT	1272	Accelerator Pedal Position Low Reference 2	II	—
28	0.5	BK/L-BU	1271	Accelerator Pedal Position Low Reference 1	II	—
29 - 32	—	—	—	Not Occupied	—	—
33	0.5	L-GN/WH	1162	Accelerator Pedal Position Signal 2	II	—
34	0.5	L-GN/WH	492	Mass Air Flow Sensor Signal	II	—

K20 Engine Control Module X1 (LCV) (cont'd)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
35 - 36	—	—	—	Not Occupied	—	—
37	0.5	BN/RD	2700	A/C Pressure Sensor 5V Reference	II	—
38 - 40	—	—	—	Not Occupied	—	—
41	0.5	WH/RD	5381	Brake Position Sensor 5V Reference	II	—
42	0.5	GY/RD	6109	Clutch Apply Sensor 5V Reference	II	—
43	—	—	—	Not Occupied	—	—
44	0.5	VT/GY	6386	Starter Enable Relay (PPEI 3) Control	II	—
45	0.5	YE/WH	1161	Accelerator Pedal Position Signal 1	II	—
46	0.5	YE/BK	3000	Coolant Temperature Sensor 2 Signal	II	—
47	0.5	L-BU/GY	636	Outside Ambient Air Temperature Sensor Signal	II	—
48	0.5	WH/L-BU	6289	Induction Air Temperature Sensor Signal	II	—
49	0.5	WH/GY	1786	Transmission Park/Neutral Signal 1	II	—
50	0.5	WH/L-BU	6311	Cruise/ETC/TCC Brake Signal	II	—
51	0.75	VT/L-BU	5291	Powertrain Main Relay Fused Supply 2	II	—
52	0.5	WH/BK	2366	Cooling Fan Control Relay Speed Signal	II	—
53	—	—	—	Not Occupied	—	—
54	0.5	WH/GY	459	A/C Compressor Clutch Relay Control	II	—
55 - 56	—	—	—	Not Occupied	—	—
57	0.5	L-GN	380	A/C Refrigerant Pressure Sensor Signal	II	—
58 - 59	—	—	—	Not Occupied	—	—
60	0.5	BN/GY	4008	Humidity Sensor Signal	II	—
61	0.5	WH/L-GN	5380	Brake Position Sensor Signal	II	—
62	0.5	YE	6111	Clutch Apply Sensor Signal	II	—
63	—	—	—	Not Occupied	—	—
64	0.5	L-GN/GY	465	Fuel Pump Primary Relay Control	II	—
65	0.5	WH	1310	EVAP Canister Vent Solenoid Control	II	—
66	—	—	—	Not Occupied	—	—
67	0.5	YE	5991	Powertrain Relay Coil Control	II	—
68	—	—	—	Not Occupied	—	—
69	0.5	L-BU	6814	Thermostat Engine Cool Control	II	—
70	—	—	—	Not Occupied	—	—
71	0.5	BN/WH	419	Check Engine Indicator Control	II	—
72	—	—	—	Not Occupied	—	—
73	1	VT/L-BU	5290	Powertrain Main Relay Fused Supply 1	I	—

K20 Engine Control Module X2 (LCV)



1673472

Connector Part Information

Harness Type: Engine
OEM Connector: 34566-0103
Service Connector: 88988931
Description: 73-Way F 0.64, 2.8 Series, Sealed (BK with BK Terminal Position Assurance)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13575797	J-35616-4A (PU)	J-38125-11A	7116-4152-02	Yazaki 9	A	5
II	13575812	J-35616-64B (LT BU)	J-38125-213	33467-0003	Delphi 23	Not Available	J

K20 Engine Control Module X2 (LCV)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	—	—	—	Not Occupied	—	—
2	0.5	L-BU	410	Engine Coolant Temperature Sensor Signal	II	—
3	—	—	—	Not Occupied	—	—
4	0.5	BN/RD	7445	Fuel Line Pressure Sensor 5V Reference	II	—
5	0.5	GY/RD	2704	Manifold Absolute Pressure Sensor 5V Reference	II	—
6	0.5	GY/YE	5297	Camshaft Position Exhaust Sensor Control 1	II	—
7	0.5	GY/L-BU	5300	Camshaft Position Intake Sensor Control 1	II	—
8 - 11	—	—	—	Not Occupied	—	—
12	0.5	BN/RD	2701	Throttle Position Sensor 5V Reference	II	—
13	0.5	L-BU/WH	3630	Throttle Position Sensor (SENT1) Signal	II	—
14	0.5	WH/RD	2705	Oil Pressure Sensor 5V Reference	II	—
15	0.5	VT/L-BU	6270	Crankshaft 60X Sensor 5V Reference	II	—
16 - 19	—	—	—	Not Occupied	—	—
20	0.5	L-BU/WH	7446	Fuel Line Pressure Sensor Signal	II	—
21	0.5	BK/L-GN	469	Manifold Absolute Pressure Sensor Low Reference	II	—
22	0.5	BK/GY	5296	Camshaft Position Exhaust Sensor Low Reference 1	II	—

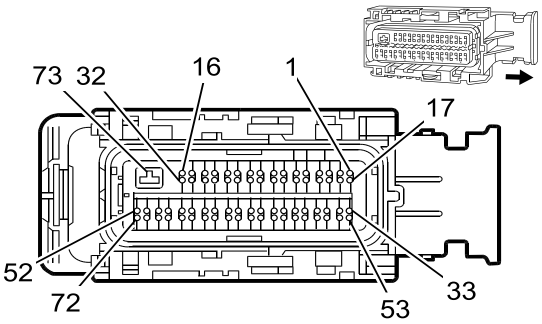
K20 Engine Control Module X2 (LCV) (cont'd)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
23	0.5	BK/L-GN	5301	Camshaft Position Intake Sensor Low Reference 1	II	—
24 - 27	—	—	—	Not Occupied	—	—
28	0.5	BK/BN	2752	Throttle Position Sensor Low Reference	II	—
29	0.5	YE/BN	331	Oil Pressure Sensor Signal	II	—
30	0.5	BK/VT	2755	Oil Pressure Sensor Low Reference	II	—
31	0.5	BK/VT	6272	Crankshaft 60X Sensor Low Reference	II	—
32	—	—	—	Not Occupied	—	—
33	0.5	WH/BK	3111	Heated Oxygen Sensor Low Signal Bank 1 Sensor 1	II	—
34	0.5	WH/YE	3121	Heated Oxygen Sensor Low Signal Bank 1 Sensor 2	II	—
35	—	—	—	Not Occupied	—	—
36	0.5	BK/VT	6754	Cam Phaser X Low Reference	II	—
37	0.5	BK/BN	6753	Cam Phaser W Low Reference	II	—
38	0.5	VT/BK	5273	Camshaft Position Exhaust Sensor 1	II	—
39	0.5	YE/VT	5275	Camshaft Position Intake Sensor 1	II	—
40	0.5	L-GN	6271	Crankshaft 60X Sensor Signal	II	—
41 - 42	—	—	—	Not Occupied	—	—
43	0.5	BK/BN	2761	Coolant Temperature Sensor Low Reference	II	—
44	0.5	BK/L-BU	2129	Ignition Control Low Reference Bank 1	II	—
45	0.5	L-GN/L-BU	2123	Ignition Control 3	II	—
46	0.5	L-BU/VT	2121	Ignition Control 1	II	—
47	—	—	—	Not Occupied	—	—
48	0.75	L-BU	4802	Direct Fuel Injector (DFI) High Voltage Control Cylinder 2	II	—
49	0.75	GY/L-BU	4804	Direct Fuel Injector (DFI) High Voltage Control Cylinder 4	II	—
50	0.75	L-GN	4803	Direct Fuel Injector (DFI) High Voltage Control Cylinder 3	II	—
51	0.75	BN	4801	Direct Fuel Injector (DFI) High Voltage Control Cylinder 1	II	—
52	0.5	YE	581	Throttle Actuator Control Open	II	—
53	0.5	VT/GY	3110	Heated Oxygen Sensor High Signal Bank 1 Sensor 1	II	—
54	0.5	VT/L-BU	3120	Heated Oxygen Sensor High Signal Bank 1 Sensor 2	II	—
55	—	—	—	Not Occupied	—	—
56	0.5	GY/L-BU	5282	Camshaft Phaser Exhaust Solenoid 1	II	—
57	0.5	VT/BN	5284	Camshaft Phaser Intake Solenoid 1	II	—
58 - 59	—	—	—	Not Occupied	—	—
60	0.5	GY/WH	3122	Heated Oxygen Sensor Heater Low Control Bank 1 Sensor 2	II	—
61	0.5	GY/WH	3113	Heated Oxygen Sensor Heater Low Control Bank 1 Sensor 1	II	—
62 - 63	—	—	—	Not Occupied	—	—
64	0.5	L-BU	179	Oil Pump Command Signal	II	—
65	0.5	L-BU/WH	2122	Ignition Control 2	II	—

K20 Engine Control Module X2 (LCV) (cont'd)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
66	0.5	YE/L-BU	2124	Ignition Control 4	II	—
67	—	—	—	Not Occupied	—	—
68	0.75	L-BU/GY	4902	Direct Fuel Injector (DFI) High Voltage Supply Cylinder 2	II	—
69	0.75	L-BU/WH	4904	Direct Fuel Injector (DFI) High Voltage Supply Cylinder 4	II	—
70	0.75	L-GN/GY	4903	Direct Fuel Injector (DFI) High Voltage Supply Cylinder 3	II	—
71	0.75	BN/WH	4901	Direct Fuel Injector (DFI) High Voltage Supply Cylinder 1	II	—
72	0.5	BN/WH	582	Throttle Actuator Control Close	II	—
73	2.5	BK/WH	1451	Signal Ground	I	—

K20 Engine Control Module X3 (LCV)



1590596

Connector Part Information

Harness Type: Engine
OEM Connector: 34566-0203
Service Connector: 88988372
Description: 73-Way F 0.64, 2.8 Series, Sealed (BK with GY Terminal Position Assurance)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13575797	J-35616-4A (PU)	J-38125-11A	7116-4152-02	Yazaki 9	A	5
II	13575812	J-35616-64B (LT BU)	J-38125-213	33467-0003	Delphi 23	Not Available	J

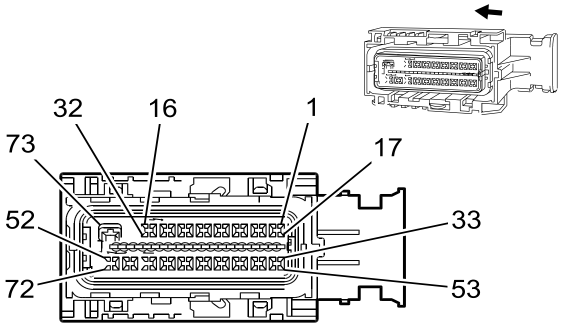
K20 Engine Control Module X3 (LCV)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1 - 3	—	—	—	Not Occupied	—	—
4	0.5	L-GN/L-BU	428	EVAP Canister Purge Solenoid Control	II	—
5	—	—	—	Not Occupied	—	—
6	0.5	BN/RD	2917	Fuel Rail Pressure Sensor 5V Reference	II	—
7	—	—	—	Not Occupied	—	—
8	0.5	YE/RD	2709	Fuel Tank Pressure Sensor 5V Reference	II	—
9 - 10	—	—	—	Not Occupied	—	—
11	0.5	L-BU/RD	1688	5V Reference	II	—
12 - 13	—	—	—	Not Occupied	—	—
14	0.5	WH/RD	3201	Throttle Inlet Absolute Pressure Sensor 5V Reference	II	—
15	—	—	—	Not Occupied	—	—
16	0.5	VT/L-BU	5294	Powertrain Main Relay Fused Supply 5	II	—
17	—	—	—	Not Occupied	—	—
18	0.5	L-BU/WH	225	Generator Turn On Signal	II	—
19	0.5	GY	23	Generator Field Duty Cycle Signal	II	—
20	0.5	BK/L-GN	6281	Fuel Level Sensor Low Reference	II	—
21	0.5	L-BU/WH	2918	Fuel Rail Pressure Sensor Signal	II	—
22	0.5	BK/L-GN	2919	Fuel Rail Pressure Sensor Low Reference	II	—

K20 Engine Control Module X3 (LCV) (cont'd)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
23 - 26	—	—	—	Not Occupied	—	—
27	0.5	BK/L-GN	822	Vehicle Speed Sensor Low Reference	II	—
28 - 39	—	—	—	Not Occupied	—	—
40	0.5	L-GN/WH	432	Manifold Absolute Pressure Sensor Signal	II	—
41	0.5	BN/L-GN	1174	Oil Level Switch Signal	II	—
42	—	—	—	Not Occupied	—	—
43	0.5	L-BU/VT	1589	Primary Fuel Level Sensor Signal	II	—
44 - 45	—	—	—	Not Occupied	—	—
46	0.5	YE/WH	3200	Throttle Inlet Absolute Pressure Sensor Signal	II	—
47 - 51	—	—	—	Not Occupied	—	—
52	0.5	VT/BK	7300	High Pressure Fuel Pump Actuator Low - Control	II	—
53 - 54	—	—	—	Not Occupied	—	—
55	0.5	GY	3890	Aero Shutter Control 2	II	—
56 - 58	—	—	—	Not Occupied	—	—
59	0.5	BK/GY	2303	Knock Sensor Low Reference 2	II	—
60	0.5	WH/GY	1876	Knock Sensor Signal 2	II	—
61	0.5	BK/YE	1716	Knock Sensor Low Reference 1	II	—
62	0.5	VT/GY	496	Knock Sensor Signal 1	II	—
63	0.5	VT/WH	821	Vehicle Speed Sensor Signal	II	—
64 - 66	—	—	—	Not Occupied	—	—
67	0.5	L-GN/WH	5007	Reverse Switch Signal	II	—
68	0.5	L-BU/WH	890	Fuel Tank Pressure Sensor Signal	II	—
69 - 71	—	—	—	Not Occupied	—	—
72	0.5	YE	7301	High Pressure Fuel Pump Actuator High - Control	II	—
73	2.5	BK/WH	1451	Signal Ground	I	—

K20 Engine Control Module X1 (LGZ)



2470482

Connector Part Information

Harness Type: Engine
OEM Connector: 34566-0303
Service Connector: 13574782
Description: 73-Way F 0.64, 2.8 Series, Sealed (BK with BU Terminal Position Assurance)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13575797	J-35616-4A (PU)	J-38125-11A	7116-4152-02	Yazaki 9	2	5
II	13575812	J-35616-64B (LT BU)	J-38125-213	33467-0003	Delphi 23	Not Available	J

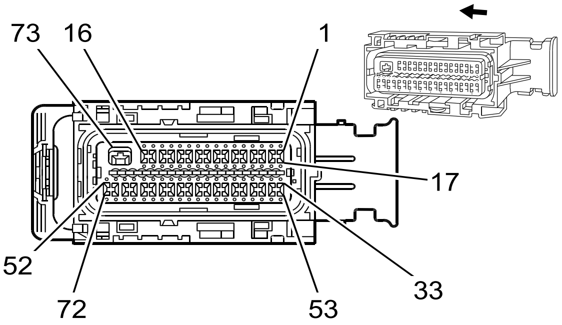
K20 Engine Control Module X1 (LGZ)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1 - 4	—	—	—	Not Occupied	—	—
5	0.5	BK/VT	1272	Accelerator Pedal Position Low Reference 2	II	—
6	0.5	YE/WH	1161	Accelerator Pedal Position Signal 1	II	—
7	0.5	BK/L-BU	1271	Accelerator Pedal Position Low Reference 1	II	—
8	0.5	WH	7494	High Speed GMLAN Serial Data (-)3	II	—
9	0.5	BK/YE	5382	Brake Position Sensor Low Reference	II	—
10 - 11	—	—	—	Not Occupied	—	—
12	0.5	WH	2501	High Speed GMLAN Serial Data (-) 1	II	—
13	0.5	WH/L-BU	6311	Cruise/ETC/TCC Brake Signal	II	—
14	0.5	WH/GY	459	A/C Compressor Clutch Relay Control	II	—
15	0.5	YE	5991	Powertrain Relay Coil Control	II	—
16	0.5	BN/WH	419	Check Engine Indicator Control	II	—
17	0.5	WH/BK	2366	Cooling Fan Control Relay Speed Signal	II	—
18 - 20	—	—	—	Not Occupied	—	—
21	0.5	BN/RD	1274	Accelerator Pedal Position 5V Reference 2	II	—
22	0.5	L-GN/WH	1162	Accelerator Pedal Position Signal 2	II	—
23	0.5	WH/RD	1164	Accelerator Pedal Position 5V Reference 1	II	—
24	0.5	L-BU/BK	7493	High Speed GMLAN Serial Data (+)3	II	—
25	0.5	WH/RD	5381	Brake Position Sensor 5V Reference	II	—

K20 Engine Control Module X1 (LGZ) (cont'd)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
26	0.5	WH/L-GN	5380	Brake Position Sensor Signal	II	—
27	—	—	—	Not Occupied	—	—
28	0.5	L-BU	2500	High Speed GMLAN Serial Data (+) 1	II	—
29	0.5	WH/GY	1786	Transmission Park/Neutral Signal 1	II	—
30	0.5	L-GN/WH	492	Mass Air Flow Sensor Signal	II	—
31 - 37	—	—	—	Not Occupied	—	—
38	0.5	L-BU/WH	890	Fuel Tank Pressure Sensor Signal	II	—
39	0.5	BN/GY	4008	Humidity Sensor Signal	II	—
40 - 43	—	—	—	Not Occupied	—	—
44	0.5	BK/WH	2151	Signal Ground	II	—
45 - 46	—	—	—	Not Occupied	—	—
47	0.5	BN/RD	2700	A/C Pressure Sensor 5V Reference	II	—
48	—	—	—	Not Occupied	—	—
49	0.5	VT/L-BU	5292	Powertrain Main Relay Fused Supply 3	II	—
50	0.5	VT/L-BU	5291	Powertrain Main Relay Fused Supply 2	II	—
51	0.5	VT/YE	5985	Accessory Wakeup Serial Data	II	—
52	0.5	RD/WH	140	Battery Positive Voltage	II	—
53	—	—	—	Not Occupied	—	—
54	0.5	WH	1310	EVAP Canister Vent Solenoid Control	II	—
55 - 63	—	—	—	Not Occupied	—	—
64	0.5	L-BU/GY	636	Outside Ambient Air Temperature Sensor Signal	II	—
65 - 66	—	—	—	Not Occupied	—	—
67	0.5	L-GN	380	A/C Refrigerant Pressure Sensor Signal	II	—
68	—	—	—	Not Occupied	—	—
69	0.5	L-GN/GY	465	Fuel Pump Primary Relay Control	II	—
70	0.5	YE/BK	625	Starter Enable Relay Control	II	—
71	0.5	VT/GY	139	Run/Crank Ignition 1 Voltage	II	—
72	0.5	VT/L-BU	5290	Powertrain Main Relay Fused Supply 1	II	—
73	2	VT/L-BU	5290	Powertrain Main Relay Fused Supply 1	I	—

K20 Engine Control Module X2 (LGZ)



1673472

Connector Part Information

Harness Type: Engine
OEM Connector: 34566-0103
Service Connector: 88988931
Description: 73-Way F 0.64, 2.8 Series, Sealed (BK with BK Terminal Position Assurance)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13575797	J-35616-4A (PU)	J-38125-11A	7116-4152-02	Yazaki 9	A	5
II	13575812	J-35616-64B (LT BU)	J-38125-213	33467-0003	Delphi 23	Not Available	J

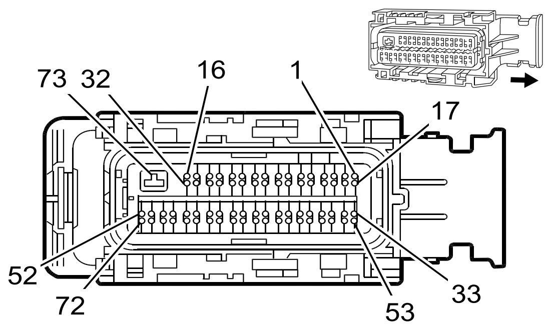
K20 Engine Control Module X2 (LGZ)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	GY/WH	3122	Heated Oxygen Sensor Heater Low Control Bank 1 Sensor 2	II	—
2	0.5	WH/BN	3223	Heated Oxygen Sensor Heater Low Control Bank 2 Sensor 2	II	—
3 - 6	—	—	—	Not Occupied	—	—
7	0.5	GY	3890	Aero Shutter Control 2	II	—
8	—	—	—	Not Occupied	—	—
9	0.5	BN/L-GN	1174	Oil Level Switch Signal	II	—
10	—	—	—	Not Occupied	—	—
11	0.5	YE/BN	331	Oil Pressure Sensor Signal	II	—
12	0.5	BK/BN	2761	Coolant Temperature Sensor Low Reference	II	—
13 - 16	—	—	—	Not Occupied	—	—
17	0.5	GY/WH	3113	Heated Oxygen Sensor Heater Low Control Bank 1 Sensor 1	II	—
18	0.5	L-GN/YE	3212	Heated Oxygen Sensor Heater Low Control Bank 2 Sensor 1	II	—
19 - 21	—	—	—	Not Occupied	—	—
22	0.5	L-BU/VT	1589	Primary Fuel Level Sensor Signal	II	—
23 - 26	—	—	—	Not Occupied	—	—
27	0.5	WH/RD	2705	Oil Pressure Sensor 5V Reference	II	—

K20 Engine Control Module X2 (LGZ) (cont'd)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
28	0.5	VT/L-BU	5294	Powertrain Main Relay Fused Supply 5	II	—
29 - 34	—	—	—	Not Occupied	—	—
35	0.5	WH/BK	3111	Heated Oxygen Sensor Low Signal Bank 1 Sensor 1	II	—
36	0.5	YE/WH	3211	Heated Oxygen Sensor Low Signal Bank 2 Sensor 1	II	—
37	0.5	WH/YE	3121	Heated Oxygen Sensor Low Signal Bank 1 Sensor 2	II	—
38	0.5	YE/L-BU	3221	Heated Oxygen Sensor Low Signal Bank 2 Sensor 2	II	—
39	0.5	BK/YE	1716	Knock Sensor Low Reference 1	II	—
40	0.5	BK/GY	2303	Knock Sensor Low Reference 2	II	—
41	—	—	—	Not Occupied	—	—
42	0.5	YE/WH	3200	Throttle Inlet Absolute Pressure Sensor Signal	II	—
43	0.5	WH/RD	3201	Throttle Inlet Absolute Pressure Sensor 5V Reference	II	—
44	—	—	—	Not Occupied	—	—
45	0.5	L-BU/RD	1688	5V Reference	II	—
46	0.5	YE/RD	2709	Fuel Tank Pressure Sensor 5V Reference	II	—
47	0.5	GY/RD	2704	Manifold Absolute Pressure Sensor 5V Reference	II	—
48	0.5	BK/L-GN	469	Manifold Absolute Pressure Sensor Low Reference	II	—
49 - 50	—	—	—	Not Occupied	—	—
51	0.5	BK/VT	2755	Oil Pressure Sensor Low Reference	II	—
52	0.5	BN/WH	582	Throttle Actuator Control Close	II	—
53 - 54	—	—	—	Not Occupied	—	—
55	0.5	VT/GY	3110	Heated Oxygen Sensor High Signal Bank 1 Sensor 1	II	—
56	0.5	VT/WH	3210	Heated Oxygen Sensor High Signal Bank 2 Sensor 1	II	—
57	0.5	VT/L-BU	3120	Heated Oxygen Sensor High Signal Bank 1 Sensor 2	II	—
58	0.5	VT/L-GN	3220	Heated Oxygen Sensor High Signal Bank 2 Sensor 2	II	—
59	0.5	VT/GY	496	Knock Sensor Signal 1	II	—
60	0.5	WH/GY	1876	Knock Sensor Signal 2	II	—
61 - 62	—	—	—	Not Occupied	—	—
63	0.5	BK/VT	2760	Intake Air Temperature Sensor Low Reference	II	—
64	—	—	—	Not Occupied	—	—
65	0.5	VT/WH	821	Vehicle Speed Sensor Signal	II	—
66	0.5	BK/L-GN	822	Vehicle Speed Sensor Low Reference	II	—
67	0.5	L-GN/WH	432	Manifold Absolute Pressure Sensor Signal	II	—
68 - 69	—	—	—	Not Occupied	—	—
70	0.5	WH/L-BU	6289	Induction Air Temperature Sensor Signal	II	—
71	—	—	—	Not Occupied	—	—
72	0.5	YE	581	Throttle Actuator Control Open	II	—
73	2.5	BK/WH	151	Signal Ground	I	—

K20 Engine Control Module X3 (LGZ)



1590596

Connector Part Information

Harness Type: Engine
OEM Connector: 34566-0203
Service Connector: 88988372
Description: 73-Way F 0.64, 2.8 Series, Sealed (BK with GY Terminal Position Assurance)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13575797	J-35616-4A (PU)	J-38125-11A	7116-4152-02	Yazaki 9	A	5
II	13575812	J-35616-64B (LT BU)	J-38125-213	33467-0003	Delphi 23	Not Available	J

K20 Engine Control Module X3 (LGZ)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	L-GN	5492	Cylinder Shutoff Solenoid Control 2	II	—
2	0.5	L-BU	5491	Cylinder Shutoff Solenoid Control 1	II	—
3	0.5	L-GN/BN	5298	Camshaft Position Exhaust Sensor Control 2	II	—
4	0.5	YE	5276	Camshaft Position Intake Sensor 2	II	—
5	0.5	WH/L-BU	5302	Camshaft Position Intake Sensor Control 2	II	—
6	0.5	VT/L-BU	6270	Crankshaft 60X Sensor 5V Reference	II	—
7	0.5	L-GN	6271	Crankshaft 60X Sensor Signal	II	—
8	0.5	BN/RD	2701	Throttle Position Sensor 5V Reference	II	—
9 - 11	—	—	—	Not Occupied	—	—
12	0.5	BN/L-BU	2126	Ignition Control 6	II	—
13	0.5	L-BU/GY	2125	Ignition Control 5	II	—
14	0.5	YE/L-BU	2124	Ignition Control 4	II	—
15	0.5	BK/GY	2130	Ignition Control Low Reference Bank 2	II	—
16	0.5	YE	7301	High Pressure Fuel Pump Actuator High - Control	II	—
17	0.5	GY/L-GN	908	—	II	—
18	0.5	YE/L-GN	4321	Park Phaser Lock Control	II	—
19	0.5	BK/BN	5299	Camshaft Position Exhaust Sensor Low Reference 2	II	—
20	0.5	VT/L-BU	5274	Camshaft Position Exhaust Sensor 2	II	—

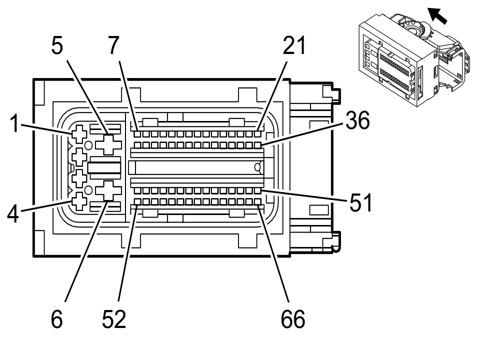
K20 Engine Control Module X3 (LGZ) (cont'd)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
21	0.5	BK/VT	5303	Camshaft Position Intake Sensor Low Reference 2	II	—
22	0.5	BK/VT	6272	Crankshaft 60X Sensor Low Reference	II	—
23	0.5	L-BU/WH	3630	Throttle Position Sensor (SENT1) Signal	II	—
24	0.5	BK/BN	2752	Throttle Position Sensor Low Reference	II	—
25	—	—	—	Not Occupied	—	—
26	0.5	L-BU/WH	225	Generator Turn On Signal	II	—
27	—	—	—	Not Occupied	—	—
28	0.5	L-GN/L-BU	2123	Ignition Control 3	II	—
29	0.5	L-BU/WH	2122	Ignition Control 2	II	—
30	0.5	L-BU/VT	2121	Ignition Control 1	II	—
31	0.5	BK/L-BU	2129	Ignition Control Low Reference Bank 1	II	—
32	0.5	VT/BK	7300	High Pressure Fuel Pump Actuator Low - Control	II	—
33	0.5	L-GN/L-BU	428	EVAP Canister Purge Solenoid Control	II	—
34	0.5	L-BU	179	Oil Pump Command Signal	II	—
35	0.5	GY/YE	5297	Camshaft Position Exhaust Sensor Control 1	II	—
36	0.5	VT/BK	5273	Camshaft Position Exhaust Sensor 1	II	—
37	0.5	BK/GY	5296	Camshaft Position Exhaust Sensor Low Reference 1	II	—
38	0.5	L-BU	410	Engine Coolant Temperature Sensor Signal	II	—
39	0.5	BN/RD	7445	Fuel Line Pressure Sensor 5V Reference	II	—
40	0.5	BN/RD	2917	Fuel Rail Pressure Sensor 5V Reference	II	—
41	0.5	BK/L-GN	2919	Fuel Rail Pressure Sensor Low Reference	II	—
42	—	—	—	Not Occupied	—	—
43	0.5	BK/L-BU	6755	Cam Phaser Y Low Reference	II	—
44	0.5	L-GN	5272	Camshaft Phaser Intake Solenoid 2	II	—
45	0.5	VT/BN	5284	Camshaft Phaser Intake Solenoid 1	II	—
46	0.5	BK/BN	6753	Cam Phaser W Low Reference	II	—
47	0.75	WH/L-GN	4805	Direct Fuel Injector (DFI) High Voltage Control Cylinder 5	II	—
48	0.75	L-BU	4802	Direct Fuel Injector (DFI) High Voltage Control Cylinder 2	II	—
49	0.75	BN	4801	Direct Fuel Injector (DFI) High Voltage Control Cylinder 1	II	—
50	0.75	GY/L-BU	4804	Direct Fuel Injector (DFI) High Voltage Control Cylinder 4	II	—
51	0.75	VT/L-GN	4806	Direct Fuel Injector (DFI) High Voltage Control Cylinder 6	II	—
52	0.75	L-GN	4803	Direct Fuel Injector (DFI) High Voltage Control Cylinder 3	II	—
53 - 54	—	—	—	Not Occupied	—	—
55	0.5	GY/L-BU	5300	Camshaft Position Intake Sensor Control 1	II	—
56	0.5	YE/VT	5275	Camshaft Position Intake Sensor 1	II	—
57	0.5	BK/L-GN	5301	Camshaft Position Intake Sensor Low Reference 1	II	—
58	—	—	—	Not Occupied	—	—

K20 Engine Control Module X3 (LGZ) (cont'd)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
59	0.5	L-BU/WH	7446	Fuel Line Pressure Sensor Signal	II	—
60	0.5	L-BU/WH	2918	Fuel Rail Pressure Sensor Signal	II	—
61	0.5	GY	23	Generator Field Duty Cycle Signal	II	—
62	—	—	—	Not Occupied	—	—
63	0.5	BK/GY	6756	Cam Phaser Z Low Reference	II	—
64	0.5	L-GN/BN	5283	Camshaft Phaser Exhaust Solenoid 2	II	—
65	0.5	GY/L-BU	5282	Camshaft Phaser Exhaust Solenoid 1	II	—
66	0.5	BK/VT	6754	Cam Phaser X Low Reference	II	—
67	0.75	L-GN/WH	4905	Direct Fuel Injector (DFI) High Voltage Supply Cylinder 5	II	—
68	0.75	L-BU/GY	4902	Direct Fuel Injector (DFI) High Voltage Supply Cylinder 2	II	—
69	0.75	BN/WH	4901	Direct Fuel Injector (DFI) High Voltage Supply Cylinder 1	II	—
70	0.75	L-BU/WH	4904	Direct Fuel Injector (DFI) High Voltage Supply Cylinder 4	II	—
71	0.75	VT/GY	4906	Direct Fuel Injector (DFI) High Voltage Supply Cylinder 6	II	—
72	0.75	L-GN/GY	4903	Direct Fuel Injector (DFI) High Voltage Supply Cylinder 3	II	—
73	2.5	BK/WH	151	Signal Ground	I	—

K20 Engine Control Module X1 (LWN)



2498868

Connector Part Information

- Harness Type: Engine
- OEM Connector: 13647470
- Service Connector: 19332707
- Description: 66-Way F 0.64, 2.8, 6.3 Series, Sealed (BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I		J-35616-64B (LT BU)	J-38125-12A	Not Available	Not Available	Not Available	Not Available
II	13584448	J-35616-64B (LT BU)	J-38125-12A	1719532-5	Lear 7	J	J
III	-	J-35616-4A (PU)	J-38125-36	4-964273-1	Yazaki 15	C	5
IV	-	J-35616-4A (PU)	J-38125-36	4-964273-1	Yazaki 15	E	1
V	-	J-35616-4A (PU)	J-38125-36	4-964286-1	Lear 16	E	1
VI	-	J-35616-4A (PU)	J-38125-36	4-964286-1	Lear 16	Not Available	Not Available

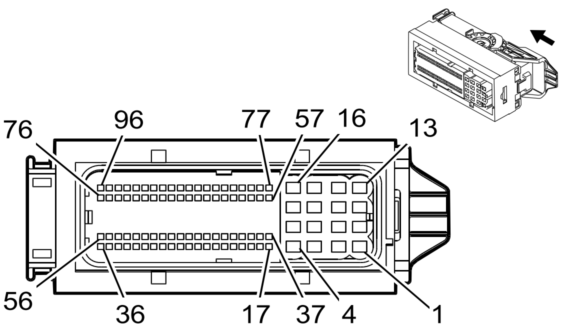
K20 Engine Control Module X1 (LWN)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	2.5	VT/L-BU	5290	Powertrain Main Relay Fused Supply 1	III	—
2	0.75	VT/L-BU	5291	Powertrain Main Relay Fused Supply 2	V	—
3	1.5	VT/L-BU	5292	Powertrain Main Relay Fused Supply 3	IV	—
4	0.5	RD/WH	140	Battery Positive Voltage	VI	—
5	6	BN/L-BU	104	Glow Plug Control	I	—
6	6	BK/WH	451	Signal Ground	I	—
7	0.5	VT/YE	5985	Accessory Wakeup Serial Data	II	—
8 - 10	—	—	—	Not Occupied	—	—
11	0.5	L-BU/YE	6861	Water In Fuel Sensor Signal	II	—
12	—	—	—	Not Occupied	—	—
13	0.5	WH/RD	1164	Accelerator Pedal Position 5V Reference 1	II	—
14	0.5	BN/RD	1274	Accelerator Pedal Position 5V Reference 2	II	—

K20 Engine Control Module X1 (LWN) (cont'd)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
15	0.5	L-GN/WH	1162	Accelerator Pedal Position Signal 2	II	—
16	0.5	BK/VT	1272	Accelerator Pedal Position Low Reference 2	II	—
17	0.5	WH/BK	2366	Cooling Fan Control Relay Speed Signal	II	—
18	0.5	BN/WH	419	Check Engine Indicator Control	II	—
19	0.5	L-GN/BN	507	Wait To Start Indicator Control	II	—
20	—	—	—	Not Occupied	—	—
21	0.5	YE	2928	Fuel Metering Valve High Control	II	—
22	0.5	VT/GY	139	Run/Crank Ignition 1 Voltage	II	—
23	0.5	WH/L-BU	6311	Cruise/ETC/TCC Brake Signal	II	—
24	0.5	WH/GY	1786	Transmission Park/Neutral Signal 1	II	—
25	0.5	L-GN/WH	492	Mass Air Flow Sensor Signal	II	—
26	0.5	L-BU/VT	2364	Cooling Fan Speed Signal	II	—
27	0.5	BK/L-BU	1271	Accelerator Pedal Position Low Reference 1	II	—
28	0.5	YE/WH	1161	Accelerator Pedal Position Signal 1	II	—
29	0.5	L-BU/RD	1688	5V Reference	II	—
30	0.5	VT/WH	821	Vehicle Speed Sensor Signal	II	—
31	0.5	BK/L-GN	822	Vehicle Speed Sensor Low Reference	II	—
32	—	—	—	Not Occupied	—	—
33	0.5	WH/GY	459	A/C Compressor Clutch Relay Control	II	—
34 - 35	—	—	—	Not Occupied	—	—
36	0.5	BN/BK	2929	Fuel Metering Valve Low Control	II	—
37 - 38	—	—	—	Not Occupied	—	—
39	0.5	WH	4499	High Speed GMLAN Serial Data (-) 7	II	—
40	0.5	WH	2501	High Speed GMLAN Serial Data (-) 1	II	—
41 - 42	—	—	—	Not Occupied	—	—
43	0.5	BK/YE	5382	Brake Position Sensor Low Reference	II	—
44	0.5	WH/RD	5381	Brake Position Sensor 5V Reference	II	—
45	0.5	WH/L-BU	6289	Induction Air Temperature Sensor Signal	II	—
46	0.5	BN/RD	2700	A/C Pressure Sensor 5V Reference	II	—
47	0.5	L-GN	380	A/C Refrigerant Pressure Sensor Signal	II	—
48	0.5	BK/BN	5514	A/C Refrigerant Pressure Sensor Low Reference	II	—
49	—	—	—	Not Occupied	—	—
50	0.5	L-GN/GY	465	Fuel Pump Primary Relay Control	II	—
51	0.5	YE	5991	Powertrain Relay Coil Control	II	—
52 - 53	—	—	—	Not Occupied	—	—
54	0.5	L-BU/BN	4498	High Speed GMLAN Serial Data (+) 7	II	—
55	0.5	L-BU	2500	High Speed GMLAN Serial Data (+) 1	II	—
56 - 58	—	—	—	Not Occupied	—	—
59	0.5	WH/L-GN	5380	Brake Position Sensor Signal	II	—
60	0.5	BK/VT	2760	Intake Air Temperature Sensor Low Reference	II	—
61 - 63	—	—	—	Not Occupied	—	—
64	0.5	VT/BN	2927	Hydrocarbon Injector Low Control	II	—
65	—	—	—	Not Occupied	—	—
66	0.5	VT/GY	6386	Starter Enable Relay (PPEI 3) Control	II	—

K20 Engine Control Module X2 (LWN)



4115094

Connector Part Information

Harness Type: Engine
OEM Connector: 35059745
Service Connector: 19370825
Description: 96-Way F 0.64 MTS-B, 2.8 ATS Series, Sealed (BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13584448	J-35616-64B (LT BU)	J-38125-12A	1719532-5	Lear 7	J	J
II	-	J-35616-4A (PU)	J-38125-36	4-964273-1	Yazaki 15	C	5
III	-	J-35616-4A (PU)	J-38125-36	4-964273-1	Yazaki 15	E	1

K20 Engine Control Module X2 (LWN)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	1.5	L-BU/GY	4902	Direct Fuel Injector (DFI) High Voltage Supply Cylinder 2	III	—
2	1.5	L-GN/GY	4903	Direct Fuel Injector (DFI) High Voltage Supply Cylinder 3	III	—
3	1.5	L-BU/WH	4904	Direct Fuel Injector (DFI) High Voltage Supply Cylinder 4	III	—
4	1.5	BN/WH	4901	Direct Fuel Injector (DFI) High Voltage Supply Cylinder 1	III	—
5	1.5	L-BU	4802	Direct Fuel Injector (DFI) High Voltage Control Cylinder 2	III	—
6	1.5	L-GN	4803	Direct Fuel Injector (DFI) High Voltage Control Cylinder 3	III	—
7	1.5	GY/L-BU	4804	Direct Fuel Injector (DFI) High Voltage Control Cylinder 4	III	—
8	1.5	BN	4801	Direct Fuel Injector (DFI) High Voltage Control Cylinder 1	III	—
9 - 12	—	—	—	Not Occupied	—	—
13	2	GY/BN	1582	Glow Plug Control 2	II	—
14	2	GY/YE	1584	Glow Plug Control 4	II	—
15	2	GY/L-GN	1583	Glow Plug Control 3	II	—

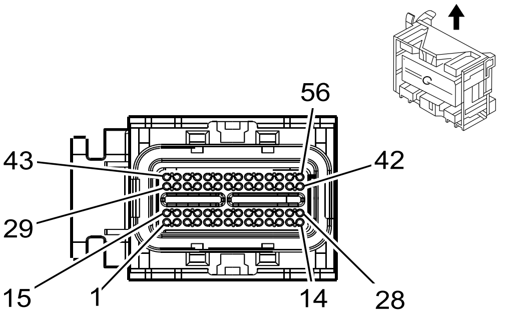
K20 Engine Control Module X2 (LWN) (cont'd)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
16	2	GY/L-BU	1581	Glow Plug Control 1	II	—
17	0.5	BK/VT	2755	Oil Pressure Sensor Low Reference	I	—
18	0.5	YE/BN	331	Oil Pressure Sensor Signal	I	—
19	0.5	WH/RD	2705	Oil Pressure Sensor 5V Reference	I	—
20 - 25	—	—	—	Not Occupied	—	—
26	0.5	BN	9348	Induction Air Temperature Sensor 3 Signal	I	—
27	0.5	BN/GY	7072	Sensor Fuel Temperature 1 Signal	I	—
28 - 29	—	—	—	Not Occupied	—	—
30	0.5	L-BU	410	Engine Coolant Temperature Sensor Signal	I	—
31	0.5	BN	3681	Charge Air Cooler Outlet Temperature Sensor Signal	I	—
32	0.5	L-GN	3683	Charge Air Cooler Inlet Temperature Sensor Signal	I	—
33	—	—	—	Not Occupied	—	—
34	0.5	BN	25	Charge Indicator Control	I	—
35 - 37	—	—	—	Not Occupied	—	—
38	0.5	BN/YE	2161	Fuel Rail Pressure Sensor 2 Signal	I	—
39	—	—	—	Not Occupied	—	—
40	0.5	GY/L-BU	5300	Camshaft Position Intake Sensor Control 1	I	—
41	0.5	YE/VT	5275	Camshaft Position Intake Sensor 1	I	—
42	0.5	BK/L-GN	5301	Camshaft Position Intake Sensor Low Reference 1	I	—
43	0.5	BN/RD	2701	Throttle Position Sensor 5V Reference	I	—
44	0.5	L-BU/WH	3630	Throttle Position Sensor (SENT1) Signal	I	—
45	0.5	BK/BN	2752	Throttle Position Sensor Low Reference	I	—
46	—	—	—	Not Occupied	—	—
47	0.5	BN/WH	7073	Sensor Fuel Temperature 1 Low Reference	I	—
48 - 49	—	—	—	Not Occupied	—	—
50	0.5	BK/BN	2761	Coolant Temperature Sensor Low Reference	I	—
51	0.5	YE/L-BU	3680	Charge Air Cooler Outlet Temperature Sensor Low Reference	I	—
52	0.5	YE/BK	3682	Charge Air Cooler Inlet Temperature Sensor Low Reference	I	—
53 - 55	—	—	—	Not Occupied	—	—
56	0.5	BN/L-BU	2926	Hydrocarbon Injector High Control	I	—
57	0.5	BK/BN	2753	Exhaust Gas Recirculation Sensor Low Reference	I	—
58	0.5	BN/WH	5763	Exhaust Gas Recirculation Valve Sensor Signal	I	—
59	0.5	L-BU/RD	5047	Exhaust Gas Recirculation 5V Reference 1	I	—
60	0.5	BK/BN	6141	Cooling Fan Speed Low Reference	I	—
61	—	—	—	Not Occupied	—	—
62	0.5	GY/RD	2365	Cooling Fan Speed 5V Reference	I	—
63 - 66	—	—	—	Not Occupied	—	—
67	0.5	GY	23	Generator Field Duty Cycle Signal	I	—
68	—	—	—	Not Occupied	—	—
69	0.5	BK/L-GN	2919	Fuel Rail Pressure Sensor Low Reference	I	—

K20 Engine Control Module X2 (LWN) (cont'd)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
70	0.5	VT/BK	5746	Exhaust Gas Recirculation Valve Motor Low Signal	I	—
71	0.5	WH/VT	5764	Exhaust Gas Recirculation Valve Motor High Signal	I	—
72	0.5	GY/L-BU	5930	Variable Nozzle Turbo Solenoid High Signal	I	—
73	0.5	WH/BK	5931	Variable Nozzle Turbo Solenoid Low Signal	I	—
74 - 75	—	—	—	Not Occupied	—	—
76	0.5	BK/YE	2834	Fuel Rail Pressure Solenoid Low Reference	I	—
77 - 79	—	—	—	Not Occupied	—	—
80	0.5	BK/L-GN	469	Manifold Absolute Pressure Sensor Low Reference	I	—
81	0.5	L-GN/WH	432	Manifold Absolute Pressure Sensor Signal	I	—
82	0.5	GY/RD	2704	Manifold Absolute Pressure Sensor 5V Reference	I	—
83	0.5	VT/L-BU	6270	Crankshaft 60X Sensor 5V Reference	I	—
84	0.5	L-GN	6271	Crankshaft 60X Sensor Signal	I	—
85	0.5	BK/VT	6272	Crankshaft 60X Sensor Low Reference	I	—
86	0.5	BN/L-GN	1174	Oil Level Switch Signal	I	—
87	—	—	—	Not Occupied	—	—
88	0.5	L-BU/WH	2918	Fuel Rail Pressure Sensor Signal	I	—
89	0.5	BN/RD	2917	Fuel Rail Pressure Sensor 5V Reference	I	—
90	0.5	BN/WH	582	Throttle Actuator Control Close	I	—
91	0.5	YE	581	Throttle Actuator Control Open	I	—
92 - 93	—	—	—	Not Occupied	—	—
94	0.5	YE/L-BU	3231	Exhaust Gas Recirculation Cooler Bypass Solenoid Control	I	—
95	0.5	GY/L-BU	3230	Exhaust Gas Recirculation Cooler Bypass Solenoid Control	I	—
96	0.5	L-BU/WH	2530	Fuel Rail Pressure Solenoid Control	I	—

K20 Engine Control Module X3 (LWN)



784851

Connector Part Information

Harness Type: Engine
OEM Connector: 34576-0703
Service Connector: 88988373
Description: 56-Way F 0.64 Series, Sealed (BU with BU Terminal Position Assurance)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13575796	J-35616-64B (LT BU)	J-38125-213	33467-0003	Delphi 23	Not Available	J

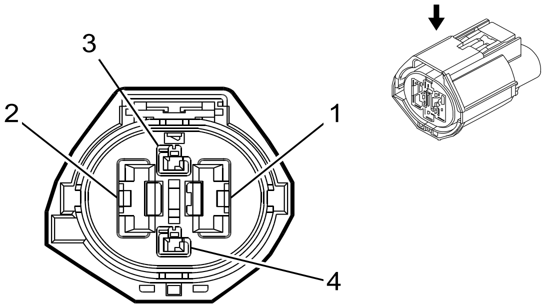
K20 Engine Control Module X3 (LWN)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	BN/WH	3100	DEF Dosing Valve Low Control	I	—
2	—	—	—	Not Occupied	—	—
3	0.5	BK/L-GN	6281	Fuel Level Sensor Low Reference	I	—
4 - 5	—	—	—	Not Occupied	—	—
6	0.5	YE/WH	3200	Throttle Inlet Absolute Pressure Sensor Signal	I	—
7	0.5	WH/RD	3201	Throttle Inlet Absolute Pressure Sensor 5V Reference	I	—
8	0.5	BK/L-BU	61	Outside Ambient Temperature Sensor Low Reference	I	—
9	0.5	BK/VT	3661	Exhaust Gas Temperature Sensor 5 Low Reference	I	—
10	0.5	BK/L-BU	6274	Exhaust Gas Recirculation Temperature Sensor Low Reference	I	—
11	0.5	BK/GY	3659	Exhaust Gas Temperature Sensor 4 Low Reference	I	—
12	0.5	BK/L-GN	3657	Exhaust Gas Temperature Sensor 3 Low Reference	I	—
13	0.5	BK/L-BU	6783	Exhaust Gas Temperature Sensor 2 Low Reference	I	—
14	0.5	L-BU/WH	5277	Exhaust Gas Temperature Sensor 1	I	—
15	0.5	BN	3099	DEF Dosing Valve High Control	I	—
16 - 17	—	—	—	Not Occupied	—	—
18	0.5	L-BU/VT	1589	Primary Fuel Level Sensor Signal	I	—

K20 Engine Control Module X3 (LWN) (cont'd)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
19	0.5	BK/YE	6275	Exhaust Gas Recirculation Temperature Sensor 2 Low Reference	I	—
20	0.5	YE/L-GN	3236	Exhaust Gas Recirculation Temperature Sensor 2 Signal	I	—
21	0.5	GY/RD	5928	Variable Nozzle Turbo Position Sensor 5V Reference	I	—
22	0.5	L-BU/GY	636	Outside Ambient Air Temperature Sensor Signal	I	—
23	0.5	L-BU/GY	3660	Exhaust Gas Temperature Sensor 5 Signal	I	—
24	0.5	WH/BN	3237	Exhaust Gas Recirculation Temperature Sensor Signal	I	—
25	0.5	VT/BN	3658	Exhaust Gas Temperature Sensor 4 Signal	I	—
26	0.5	GY/L-GN	5378	Exhaust Gas Temperature Sensor 3	I	—
27	0.5	BK/BN	6782	Exhaust Gas Temperature Sensor 1 Low Reference	I	—
28	0.5	L-BU/L-GN	5377	Exhaust Gas Temperature Sensor 2	I	—
29	—	—	—	Not Occupied	—	—
30	0.5	YE/L-BU	1497	Crankcase Ventilation (Blowby) Heater Control Signal	I	—
31	—	—	—	Not Occupied	—	—
32	0.5	BN/GY	4008	Humidity Sensor Signal	I	—
33	0.5	BK/BN	5929	Variable Nozzle Turbo Position Sensor Low Reference	I	—
34 - 42	—	—	—	Not Occupied	—	—
43	0.5	L-GN/L-BU	3889	DEF Power Module Relay Control	I	—
44	—	—	—	Not Occupied	—	—
45	0.5	L-BU	3017	Fuel Heater Relay Control 1	I	—
46	0.5	VT/YE	5947	Variable Nozzle Turbo Position Sensor Signal	I	—
47 - 49	—	—	—	Not Occupied	—	—
50	0.5	WH/RD	6054	Exhaust Pressure Sensor 5V Reference 1	I	—
51	0.5	L-BU	6053	Exhaust Pressure Sensor Signal 1	I	—
52	0.5	BK/YE	6055	Exhaust Pressure Sensor Low Reference 1	I	—
53 - 56	—	—	—	Not Occupied	—	—

K22 Cooling Fan Control Module



2394097

Connector Part Information

Harness Type: Cooling Fan
OEM Connector: 7287-1404-10
Service Connector: Service by Harness - See Part Catalog
Description: 4-Way F 1.5, 9.5 Series, Sealed (D-GY)

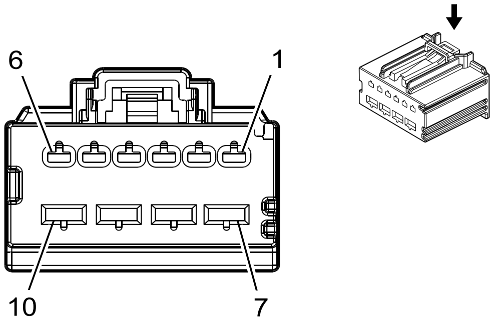
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	Not Available	No Tool Required	Not Required	Not Required	Not Required	Not Required

K22 Cooling Fan Control Module

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	—	BK	1350	Ground	I	—
2	—	RD/GY	4840	Battery Positive Voltage	I	—
3 - 4	—	—	—	Not Occupied	—	—

K29 Seat Heating Control Module X1 (KA1)



3791446

Connector Part Information

Harness Type: Passenger Seat Cushion
OEM Connector: 13582823
Service Connector: Service by Harness - See Part Catalog
Description: 10-Way F 1.5, 2.8 Series (BK)

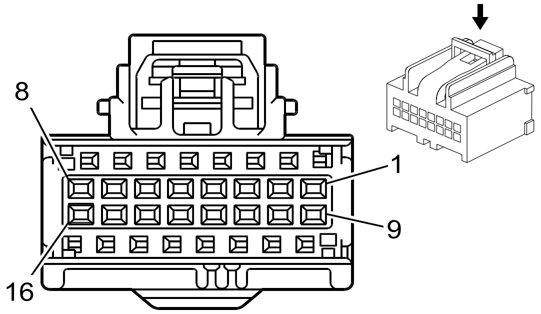
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	Not Available	No Tool Required	Not Required	Not Required	Not Required	Not Required

K29 Seat Heating Control Module X1 (KA1)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.75	WH/BN	2481	Passenger Heated Back Element Control	I	—
2	0.75	BN/BU	2479	Passenger Heated Seat Element Control	I	—
3	0.75	GY/BK	2480	Passenger Heated Seat Element Low Reference	I	—
4	0.75	VT/BK	2424	Driver Heated Back Element Low Reference	I	—
5	0.75	BN	2432	Driver Heated Back Element Control	I	—
6	0.75	BN/VT	2077	Driver Heated Seat Element Control	I	—
7	0.75	RD/GN	6140	Battery Positive Voltage	I	—
8	0.75	BK	3850	Ground	I	—
9	—	—	—	Not Occupied	—	—
10	0.75	RD/GN	5140	Battery Positive Voltage	I	—

K29 Seat Heating Control Module X2 (KA1)



1653409

Connector Part Information

Harness Type: Passenger Seat Cushion
OEM Connector: 15136073
Service Connector: Service by Harness - See Part Catalog
Description: 16-Way F 0.64 Kaizen Series (BK)

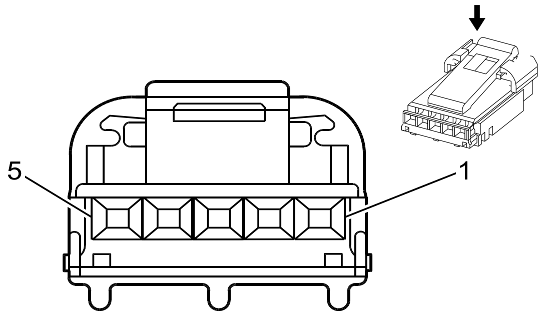
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	Not Available	No Tool Required	Not Required	Not Required	Not Required	Not Required

K29 Seat Heating Control Module X2 (KA1)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	—	BK/YE	2080	Driver Heated Seat NTC Low Reference	I	—
2	—	GY/BK	2435	Passenger Heated Seat NTC Low Reference	I	—
3	—	BU	2425	Driver Heated Back NTC Signal	I	—
4	—	WH/BU	2436	Passenger Heated Back NTC Signal	I	—
5	—	WH/GY	2434	Passenger Heated Seat NTC Signal	I	—
6	—	YE/GY	2079	Driver Heated Seat NTC Signal	I	—
7	—	—	—	Not Occupied	—	—
8	—	GN/BU	6133	Local Interconnect Network Serial Data Bus 2	I	—
9	—	GN/VT	5906	Driver Seat Vent Motor Control 1	I	—
10	—	VT/WH	5908	Passenger Seat Vent Motor Control 1	I	—
11	—	—	—	Not Occupied	—	—
12	—	BK/GN	2482	Passenger Heated Back NTC Low Reference	I	—
13 - 16	—	—	—	Not Occupied	—	—

K32 Steering Wheel Heating Control Module



1682177

Connector Part Information

Harness Type: Heated Steering Wheel
OEM Connector: 31072-1010
Service Connector: Service by Harness - See Part Catalog
Description: 5-Way F 31072 Series (BK)

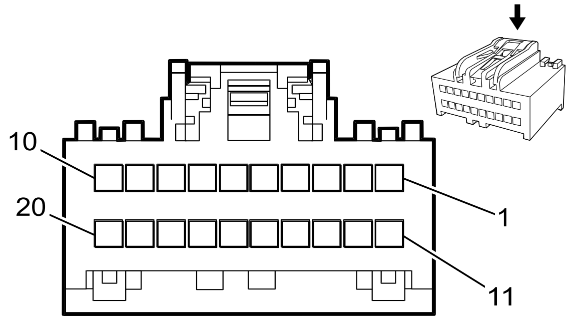
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	Not Available	No Tool Required	Not Required	Not Required	Not Required	Not Required

K32 Steering Wheel Heating Control Module

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	YE/GY	5883	Heated Steering Wheel Switch Signal	I	—
2	0.35	GN	5884	Heated Steering Wheel Switch LED Control	I	—
3	0.75	VT/WH	1139	Run/Crank Ignition 1 Voltage	I	—
4 - 5	—	—	—	Not Occupied	—	—

K33 HVAC Control Module X1



2180227

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 31410-0203
Service Connector: 13593934
Description: 20-Way F 0.64 Series (GN)

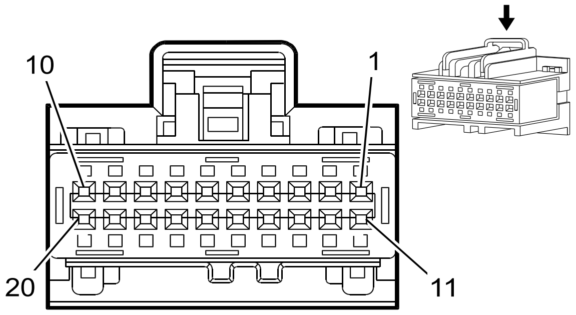
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13575742	J-35616-64B (LT BU)	J-38125-215A	SAIT-A03T-M064	Yazaki 14	P	P
II	13575867	J-35616-64B (LT BU)	J-38125-215A	SAIT-A03T-M064	Yazaki 14	P	P

K33 HVAC Control Module X1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	—	—	—	Not Occupied	—	—
2	0.35	GY/L-GN	7565	Windscreen Temp Sensor Signal	II	—
3	—	—	—	Not Occupied	—	—
4	0.35	L-BU/WH	734	Inside Air Temperature Sensor Signal	II	—
5	0.35	YE/L-BU	3197	Humidity Temperature Sensor Signal	II	—
6	0.35	YE/RD	597	5V Reference	II	—
7	0.35	BK/L-BU	7566	Humidity/Windscreen Temp Sensor Low Reference	II	—
8 - 11	—	—	—	Not Occupied	—	—
12	0.35	GY/L-BU	7564	Humidity Sensor Signal	II	—
13	—	—	—	Not Occupied	—	—
14	0.35	YE/VT	1783	Twilight Sentinel Delay Signal	II	—
15 - 17	—	—	—	Not Occupied	—	—
18	0.5	BN	518	Lower Left Air Temperature Sensor Signal	I	—
19 - 20	—	—	—	Not Occupied	—	—

K33 HVAC Control Module X2



1664552

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 31410-0202
Service Connector: 13593933
Description: 20-Way F USCAR 64 Series (BN)

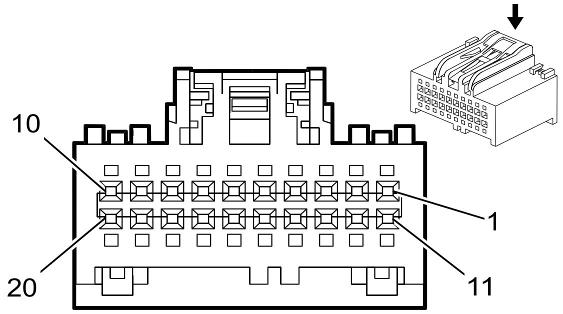
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13575742	J-35616-64B (LT BU)	J-38125-215A	SAIT-A03T-M064	Yazaki 14	P	P
II	13575867	J-35616-64B (LT BU)	J-38125-215A	SAIT-A03T-M064	Yazaki 14	P	P

K33 HVAC Control Module X2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	RD/VT	3340	Battery Positive Voltage	I	—
2	0.35	L-GN	5060	Low Speed GMLAN Serial Data	II	—
3	—	—	—	Not Occupied	—	—
4	0.35	L-GN/YE	7531	Local Interconnect Network Serial Data Bus 9	II	—
5 - 6	—	—	—	Not Occupied	—	—
7	0.5	VT	3195	Auxiliary Heater Control	I	—
8	0.5	BK	2050	Ground	I	—
9	0.35	VT/GY	539	Run/Crank Ignition 1 Voltage	II	—
10	0.5	L-BU/YE	7574	Electric Variable Displacement Control	I	—
11	0.5	L-BU/BN	7573	Electric Variable Displacement Supply	I	—
12 - 14	—	—	—	Not Occupied	—	—
15	0.35	L-BU/GY	754	Blower Motor Speed Control	II	—
16 - 17	—	—	—	Not Occupied	—	—
18	0.35	BK/YE	1791	Air Temperature Door Control Low Reference	II	—
19	0.35	BN/VT	193	Rear Defog Relay Control	II	—
20	—	—	—	Not Occupied	—	—

K33 HVAC Control Module X3



1715223

Connector Part Information

Harness Type: HVAC
OEM Connector: 31410-1200
Service Connector: Service by Harness - See Part Catalog
Description: 20-Way F 64 Series, Sealed (BK)

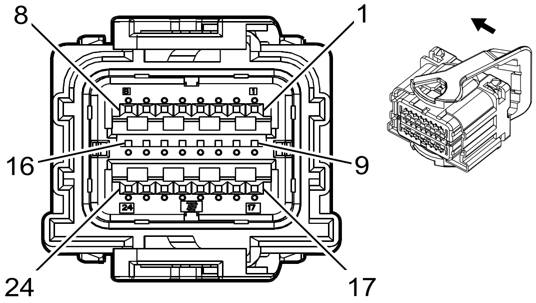
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	-	No Tool Required	Not Required	Not Required	Not Required	Not Required

K33 HVAC Control Module X3

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	—	—	—	Not Occupied	—	—
2	22	YE	3165	Mode Door Stepper Motor Control 1	I	—
3	22	WH/RD	3166	Mode Door Stepper Motor Control 2	I	—
4	22	GY/BN	3167	Mode Door Stepper Motor Control 3	I	—
5	22	D-GN/WH	3168	Mode Door Stepper Motor Control 4	I	—
6 - 8	—	—	—	Not Occupied	—	—
9	22	BK/YE	407	Sensor Low Reference	I	—
10	—	—	—	Not Occupied	—	—
11	22	D-GN	3169	Temp Door Stepper Motor Control 1	I	—
12	22	WH/PK	3170	Temp Door Stepper Motor Control 2	I	—
13	22	GY/RD	3171	Temp Door Stepper Motor Control 3	I	—
14	22	RD/BK	3172	Temp Door Stepper Motor Control 4	I	—
15	22	BK	7572	HVAC Motor Control	I	—
16	22	GY	3173	Air Inlet Door Stepper Motor Control 1	I	—
17	22	D-BU/WH	3174	Air Inlet Door Stepper Motor Control 2	I	—
18	22	BN/D-GN	3175	Air Inlet Door Stepper Motor Control 3	I	—
19	22	RD/D-GN	3176	Air Inlet Door Stepper Motor Control 4	I	—
20	22	GY	6137	EVAP Core Temperature Sensor Signal	I	—

K36 Inflatable Restraint Sensing and Diagnostic Module X1



2829824

Connector Part Information

- Harness Type: Instrument Panel
- OEM Connector: 2098923-7
- Service Connector: 19299778
- Description: 24-Way F 0.64 Series, Sealed (YE)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	19328872	J-35616-64B (LT BU)	J-38125-11A	Not Available	Not Available	Not Available	Not Available
II	19368490	J-35616-64B (LT BU)	J-38125-11A	Not Available	Not Available	Not Available	Not Available

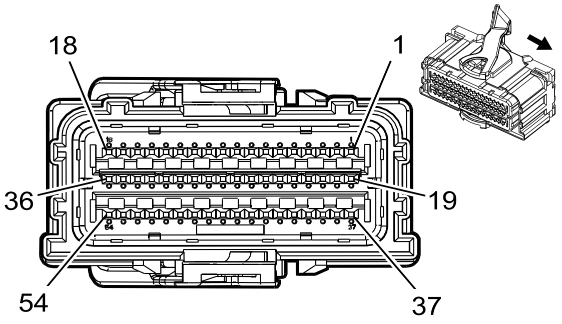
K36 Inflatable Restraint Sensing and Diagnostic Module X1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	OG/L-GN	3021	Steering Wheel Module Stage 1 High Control	I	—
2	0.35	WH/OG	3020	Steering Wheel Module Stage 1 Low Control	I	—
3	0.35	BN/OG	3022	Steering Wheel Module Stage 2 Low Control	I	—
4	0.35	OG/VT	3023	Steering Wheel Module Stage 2 High Control	I	—
5	0.35	YE/OG	3025	Passenger IP Module Stage 1 High Control	I	—
6	0.35	OG/WH	3024	Passenger IP Module Stage 1 Low Control	I	—
7	0.35	OG/VT	3026	Passenger IP Module Stage 2 Low Control	I	—
8	0.35	GY/OG	3027	Passenger IP Module Stage 2 High Control	I	—
9	0.5	RD/L-GN	4440	Battery Positive Voltage	II	—
10	0.35	VT/WH	5234	Passenger Seat Belt Indicator Control	I	—
11	0.35	L-BU	2307	Passenger Air Bag On Indicator Control	I	—
12	0.35	L-GN	2308	Passenger Air Bag Off Indicator Control	I	—
13 - 14	—	—	—	Not Occupied	—	—
15	0.5	L-GN	5060	Low Speed GMLAN Serial Data	II	—
16	—	—	—	Not Occupied	—	—
17	0.5	WH/L-BU	5986	Serial Data Communication Enable	II	—
18	0.5	L-BU/YE	6105	High Speed GMLAN Serial Data (+) 2	II	—
19	0.5	BK/WH	2251	Signal Ground	II	—
20	0.5	WH	6106	High Speed GMLAN Serial Data (-) 2	II	—

K36 Inflatable Restraint Sensing and Diagnostic Module X1 (cont'd)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
21 - 24	—	—	—	Not Occupied	—	—

K36 Inflatable Restraint Sensing and Diagnostic Module X2



2817420

Connector Part Information

Harness Type: Body
OEM Connector: 2098922-9
Service Connector: 19301526
Description: 54-Way F 0.64 Series, Sealed (YE)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	19328872	J-35616-64B (LT BU)	J-38125-11A	Not Available	Not Available	Not Available	Not Available
II	19368490	J-35616-64B (LT BU)	J-38125-11A	Not Available	Not Available	Not Available	Not Available

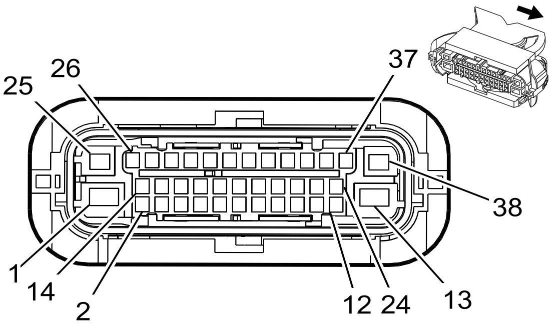
K36 Inflatable Restraint Sensing and Diagnostic Module X2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1 - 8	—	—	—	Not Occupied	—	—
9	0.35	OG/YE	3481	Driver Seat Belt Anchor Pretensioner High Control	I	—
10	0.35	YE/OG	3482	Driver Seat Belt Anchor Pretensioner Low Control	I	—
11	0.35	GY/OG	3480	Passenger Seat Belt Anchor Pretensioner Low Control	I	—
12	0.35	OG/BN	3479	Passenger Seat Belt Anchor Pretensioner High Control	I	—
13	0.35	OG/L-BU	3068	Driver Side Impact Module High Control	I	—
14	0.35	L-GN/OG	3069	Driver Side Impact Module Low Control	I	—
15	0.35	BN/OG	3067	Passenger Side Impact Module Low Control	I	—
16	0.35	OG/GY	3066	Passenger Side Impact Module High Control	I	—
17	0.5	OG/L-GN	5019	Left Front Head Curtain Module High Control	II	—
18	0.5	VT/OG	5020	Left Front Head Curtain Module Low Control	II	—
19	0.35	OG/L-GN	2132	Left Front Side Impact Sensing Module Signal	I	—
20	0.35	BK/OG	6628	Left Front Side Impact Sensing Module Low Reference	I	—
21	0.35	BK/OG	6629	Right Front Side Impact Sensing Module Low Reference	I	—
22	0.35	BN/OG	2134	Right Front Side Impact Sensing Module Signal	I	—

K36 Inflatable Restraint Sensing and Diagnostic Module X2 (cont'd)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
23	0.5	OG/YE	354	Left Front Discriminating Sensor Signal	II	—
24	0.5	BK/OG	5045	Left Front Discriminating Sensor Low Reference	II	—
25	0.5	BK/OG	5600	Right Front Discriminating Sensor Low Reference	II	—
26	0.5	OG/L-GN	1409	Right Front Discriminating Sensor Signal	II	—
27	0.35	OG/L-BU	6620	Left Middle Side Impact Sensing Module Signal	I	—
28	0.35	BK/OG	6621	Left Middle Side Impact Sensing Module Low Reference	I	—
29	0.35	BK/OG	6625	Right Middle Side Impact Sensing Module Low Reference	I	—
30	0.35	OG/VT	6624	Right Middle Side Impact Sensing Module Signal	I	—
31 - 36	—	—	—	Not Occupied	—	—
37	0.5 0.35	OG/WH OG/WH	3477 3477	Driver Seat Belt Retractor Pretensioner High Control Driver Seat Belt Retractor Pretensioner High Control	II I	CREW CAB EXTENDED CAB
38	0.5 0.35	GY/OG GY/OG	3478 3478	Driver Seat Belt Retractor Pretensioner Low Control Driver Seat Belt Retractor Pretensioner Low Control	II I	CREW CAB EXTENDED CAB
39	0.5 0.35	WH/OG WH/OG	3476 3476	Passenger Seat Belt Retractor Pretensioner Low Control Passenger Seat Belt Retractor Pretensioner Low Control	II I	CREW CAB EXTENDED CAB
40	0.5 0.35	OG/L-GN OG/L-GN	3475 3475	Passenger Seat Belt Retractor Pretensioner High Control Passenger Seat Belt Retractor Pretensioner High Control	II I	CREW CAB EXTENDED CAB
41	0.35	OG/BN	238	Driver Seat Belt Switch Signal	I	—
42	—	—	—	Not Occupied	—	—
43	0.35	BK/OG	1363	Driver Seat Belt Switch Low Reference	I	—
44	0.35	BK/OG	1361	Passenger Seat Belt Switch Low Reference	I	—
45	0.35	OG/VT	1362	Passenger Seat Belt Switch Signal	I	—
46 - 52	—	—	—	Not Occupied	—	—
53	0.5	OG/GY	5021	Right Front Head Curtain Module High Control	II	—
54	0.5	WH/OG	5022	Right Front Head Curtain Module Low Control	II	—

K38A Chassis Control Module



Connector Part Information

Harness Type: Chassis
OEM Connector: 15498534
Service Connector: 19329924
Description: 38-Way F 1.5 CTS, 2.8 MCP, 4.8 MCP Series, Sealed (BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13579915	J-35616-40 (BU)	J-38125-556	1241408-1	Lear 28	A	B
II	-	J-35616-14 (GN)	J-38125-215A	Not Available	Not Available	Not Available	Not Available
III	-	J-35616-35 (VT)	J-38125-557	1241388-1	Lear 17	E	C

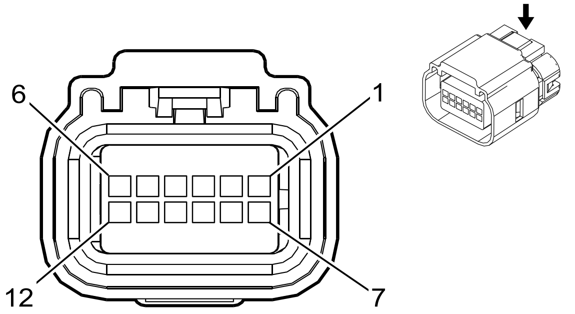
K38A Chassis Control Module

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	2.5	RD/VT	1940	Battery Positive Voltage	I	—
2	—	—	—	Not Occupied	—	—
3	0.5	BK/YE	7259	Axle Differential Lock Switch Low Reference	II	—
4	0.5	YE/GN	7122	Axle Differential Lock Switch Signal	II	—
5 - 6	—	—	—	Not Occupied	—	—
7	0.5	WH/BK	7254	Front Differential Lock Actuator Low Control	II	—
8 - 9	—	—	—	Not Occupied	—	—
10	0.5	GY/BK	7253	Rear Differential Lock Actuator Low Control	II	—
11	0.5	YE	7115	Rear Axle Differential Lock Indicator Control	II	—
12	0.5	VT/GY	7117	Front Axle Differential Lock Indicator Control	II	—
13	2.5	BK	650	Ground	I	—
14	0.5	VT/YE	5985	Accessory Wakeup Serial Data	II	—
15	0.5	VT/WH	7256	Front Differential Lock Actuator Supply Voltage	II	—
16	0.5	BU/RD	7632	Integrated Trailer Brake Controller Switch 5V Reference	II	—
17	0.5	VT/BN	7258	Rear Differential Lock Actuator Supply Voltage	II	—
18	0.5	BN	7634	Integrated Trailer Brake Controller Redundant Manual Apply Signal	II	—

K38A Chassis Control Module (cont'd)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
19	0.5	BK/BN	7631	Integrated Trailer Brake Controller Switch Low Reference	II	—
20	0.5	YE	7635	Integrated Trailer Brake Controller Manual Apply Signal	II	—
21	0.5	GN/BK	7633	Integrated Trailer Brake Controller User Gain Signal	II	—
22	0.5	YE/BK	2224	Trailer Brake Enable Signal	II	—
23	0.5	WH/BK	2223	Trailer Brake Control Signal	II	—
24	—	—	—	Not Occupied	—	—
25	0.75	VT/GY	139	Run/Crank Ignition 1 Voltage	III	—
26	0.5	BU	2500	High Speed GMLAN Serial Data (+) 1	II	—
27	0.5	BU	2500	High Speed GMLAN Serial Data (+) 1	II	—
28	0.5	WH	2501	High Speed GMLAN Serial Data (-) 1	II	—
29	0.5	WH	2501	High Speed GMLAN Serial Data (-) 1	II	—
30	0.5	GN/VT	4114	Local Interconnect Network Serial Data Bus 14	II	—
31 - 33	—	—	—	Not Occupied	—	—
34	0.5	GN/BK	7118	Front Axle Differential Lock Low Reference	II	—
35	0.5	VT/BK	7121	Rear Axle Differential Lock Low Reference	II	—
36	0.5	BU/BK	7116	Front Axle Differential Lock Control	II	—
37	0.5	BU/WH	7120	Rear Axle Differential Lock Control	II	—
38	—	—	—	Not Occupied	—	—

K43 Power Steering Control Module X1



3293624

Connector Part Information

Harness Type: Power Steering
OEM Connector: 13678638
Service Connector: Service by Harness - See Part Catalog
Description: 12-Way F 1.2 OCS Series, Sealed (BK)

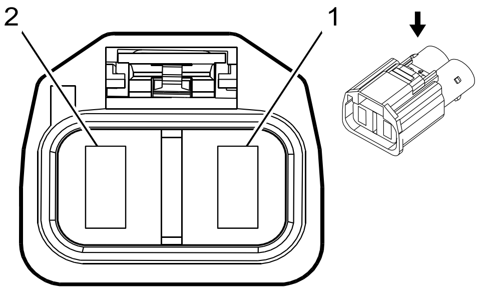
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-16 (LT GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

K43 Power Steering Control Module X1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	RD/BN	5940	Battery Positive Voltage	I	—
2	0.5	WH/L-BU	5986	Serial Data Communication Enable	I	—
3	0.5	L-BU/YE	6105	High Speed GMLAN Serial Data (+) 2	I	—
4	0.5	WH	6106	High Speed GMLAN Serial Data (-) 2	I	—
5	0.5	L-BU/YE	6105	High Speed GMLAN Serial Data (+) 2	I	—
6	0.5	WH	6106	High Speed GMLAN Serial Data (-) 2	I	—
7	0.5	BK	1150	Ground	I	—
8	0.5	L-BU	2500	High Speed GMLAN Serial Data (+) 1	I	—
9	0.5	WH	2501	High Speed GMLAN Serial Data (-) 1	I	—
10	0.5	L-BU	2500	High Speed GMLAN Serial Data (+) 1	I	—
11	0.5	WH	2501	High Speed GMLAN Serial Data (-) 1	I	—
12	0.5	BK	1150	Ground	I	—

K43 Power Steering Control Module X2



2748050

Connector Part Information

Harness Type: Power Steering
OEM Connector: 7287-1990-30
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way F 9.5 Series, Sealed (BK)

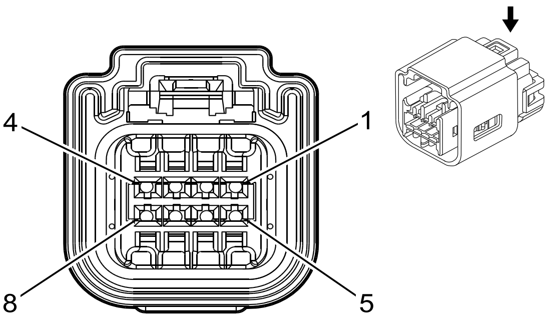
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	-	No Tool Required	Not Required	Not Required	Not Required	Not Required

K43 Power Steering Control Module X2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	10	BK	1050	Ground	I	—
2	10	RD/VT	842	Battery Positive Voltage	I	—

K43 Power Steering Control Module X3



3996837

Connector Part Information

Harness Type: Power Steering
OEM Connector: 13572498
Service Connector: Service by Harness - See Part Catalog
Description: 8-Way F 1.2 OCS Series, Sealed (BK)

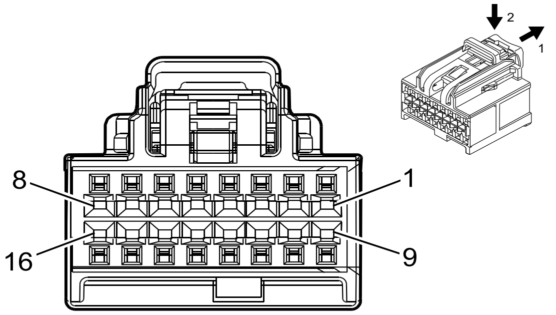
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	No Tool Required	No Tool Required	Not Required	Not Required	Not Required	Not Required

K43 Power Steering Control Module X3

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	BN/BK	—	—	I	—
2	0.5	BN/RD	6631	Torque Input Sensor High Reference	I	—
3	0.5	BU/GY	6633	Torque Input Sensor Signal	I	—
4	0.5	BK/BU	6632	Torque Input Sensor Low Reference	I	—
5	0.5	WH/OG	—	—	I	—
6	0.5	BN/RD	6631	Torque Input Sensor High Reference	I	—
7	0.5	BU/GY	6633	Torque Input Sensor Signal	I	—
8	0.5	BK/BU	6632	Torque Input Sensor Low Reference	I	—

K56 Serial Data Gateway Module X1



4873243

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 35016343
Service Connector: 13519738
Description: 16-Way F 0.64 OCS Series (BK)

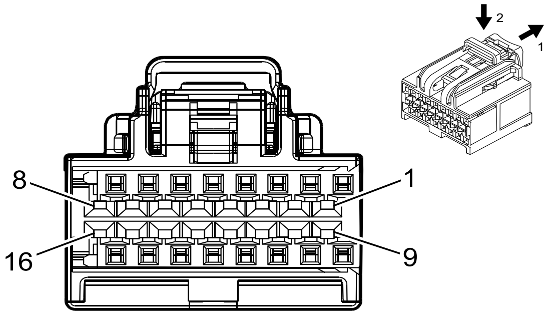
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13587581	J-35616-64B (LT BU)	J-38125-12A	Not Available	Not Available	Not Available	Not Available

K56 Serial Data Gateway Module X1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	RD/WH	6440	Battery Positive Voltage	I	—
2	—	—	—	Not Occupied	—	—
3	0.35	L-BU/L-GN	1304	High Speed GMLAN Serial Data (+)9	I	—
4	0.35	WH/L-GN	1305	High Speed GMLAN Serial Data (-)9	I	—
5	—	—	—	Not Occupied	—	—
6	0.5	BK/WH	2151	Signal Ground	I	—
7	0.5	L-BU	2500	High Speed GMLAN Serial Data (+) 1	I	—
8	0.5	WH	2501	High Speed GMLAN Serial Data (-) 1	I	—
9	—	—	—	Not Occupied	—	—
10	0.35	WH/L-BU	5986	Serial Data Communication Enable	I	—
11	0.35	L-BU/L-GN	1304	High Speed GMLAN Serial Data (+)9	I	—
12	0.35	WH/L-GN	1305	High Speed GMLAN Serial Data (-)9	I	—
13	0.35	L-BU/L-GN	1304	High Speed GMLAN Serial Data (+)9	I	—
14	0.35	WH/L-GN	1305	High Speed GMLAN Serial Data (-)9	I	—
15	0.5	L-GN	5060	Low Speed GMLAN Serial Data	I	—
16	—	—	—	Not Occupied	—	—

K56 Serial Data Gateway Module X2



4873254

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 35016344
Service Connector: 13519739
Description: 16-Way F 0.64 OCS Series (GY)

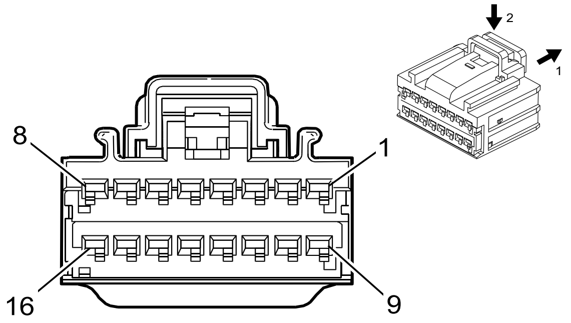
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13587581	J-35616-64B (LT BU)	J-38125-12A	Not Available	Not Available	Not Available	Not Available

K56 Serial Data Gateway Module X2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	L-BU	2500	High Speed GMLAN Serial Data (+) 1	I	—
2	0.5	WH	2501	High Speed GMLAN Serial Data (-) 1	I	—
3 - 9	—	—	—	Not Occupied	—	—
10	0.5	GY/L-GN	1102	Low Speed GMLAN Serial Data #2	I	—
11	0.35	L-BU/L-GN	1304	High Speed GMLAN Serial Data (+)9	I	—
12	0.35	WH/L-GN	1305	High Speed GMLAN Serial Data (-)9	I	—
13 - 16	—	—	—	Not Occupied	—	—

K69 Transfer Case Control Module X1



4847548

Connector Part Information

Harness Type: Body
OEM Connector: 15512507
Service Connector: 13591062
Description: 16-Way F 1.5 OCS Series (GY)

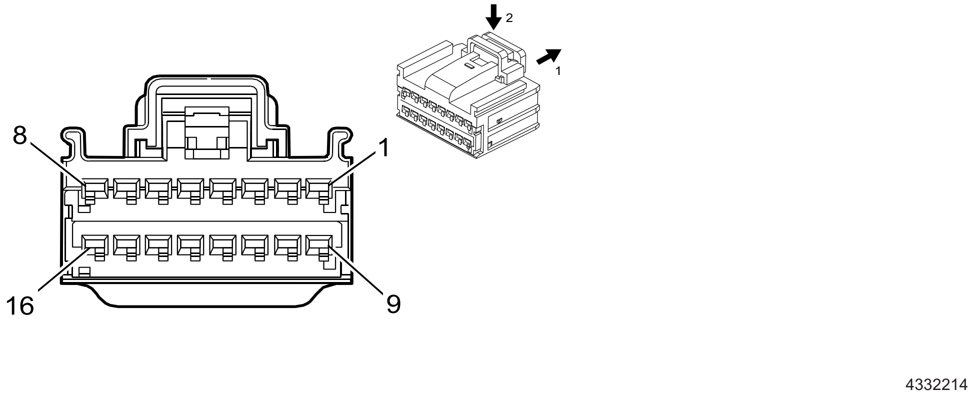
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	19301767	J-35616-2A (GY)	J-38125-560	Not Available	Not Available	Not Available	Not Available

K69 Transfer Case Control Module X1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	YE/BK	7478	Rotary Position Sensor Low Reference	I	—
2	0.5	WH/L-GN	7479	Rotary Position Sensor Signal	I	—
3	0.5	YE	7474	Incremental Encoder Direction Signal	I	—
4	0.5	GY/BK	1570	Front Axle Actuator Control	I	—
5	0.5	L-BU/GY	7473	Incremental Encoder Impulse Signal	I	—
6	0.35	GY/RD	6029	Four Wheel Drive Mode Switch 5V Reference	I	—
7	0.35	L-BU/YE	1693	Four Wheel Drive Switch Signal	I	—
8	—	—	—	Not Occupied	—	—
9	0.5	WH/RD	7477	Rotary Position Sensor 5V Reference	I	—
10	0.5	WH/L-GN	7475	Incremental Encoder Sensor 8V Reference	I	—
11	0.5	VT	7476	Incremental Encoder Sensor Low Reference	I	—
12	0.5	YE/WH	1695	Four Wheel Drive Wheel Lock Indicator Control	I	—
13	1	YE/BN	1569	Transfer Case Lock Solenoid Control	I	—
14 - 16	—	—	—	Not Occupied	—	—

K69 Transfer Case Control Module X2



Connector Part Information

Harness Type: Body
OEM Connector: 15512506
Service Connector: 13591061
Description: 16-Way F 1.5 OCS Series (BK)

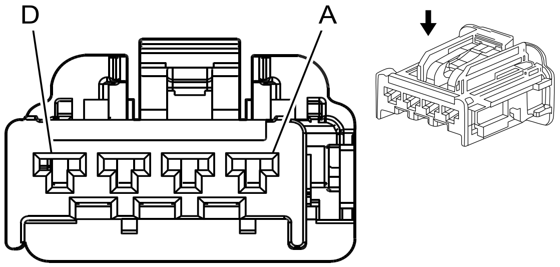
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	19301767	J-35616-2A (GY)	J-38125-560	Not Available	Not Available	Not Available	Not Available

K69 Transfer Case Control Module X2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1 - 2	—	—	—	Not Occupied	—	—
3	0.35	VT/WH	1565	4 LO Indicator Control	I	—
4	0.35	VT/L-GN	1739	Run/Crank Ignition 1 Voltage	I	—
5	—	—	—	Not Occupied	—	—
6	0.35	VT/YE	5985	Accessory Wakeup Serial Data	I	—
7	0.5	L-BU	2500	High Speed GMLAN Serial Data (+) 1	I	—
8	0.5	WH	2501	High Speed GMLAN Serial Data (-) 1	I	—
9 - 10	—	—	—	Not Occupied	—	—
11	0.35	GY/L-GN	1561	AWD Indicator Control	I	—
12	0.35	BN	1560	Neutral Indicator Control	I	—
13	0.35	L-GN/BK	1563	2 HI Indicator Control	I	—
14	0.35	BN/BK	1566	4 HI Indicator Control	I	—
15	0.5	L-BU	2500	High Speed GMLAN Serial Data (+) 1	I	—
16	0.5	WH	2501	High Speed GMLAN Serial Data (-) 1	I	—

K69 Transfer Case Control Module X3



1866237

Connector Part Information

Harness Type: Body
OEM Connector: 15466671
Service Connector: 19149301
Description: 4-Way F 280 GT Series (L-GY)

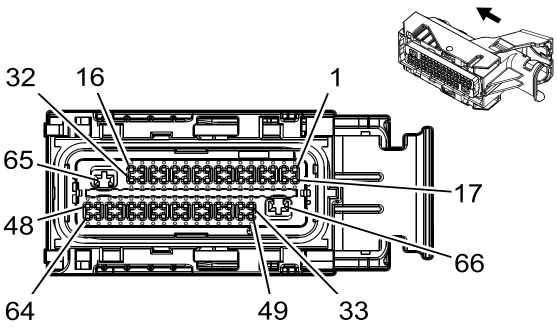
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-4A (PU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

K69 Transfer Case Control Module X3

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	2.5	YE/VT	1553	Transfer Case Motor Counter Clockwise Control	I	—
B	2.5	YE/GY	1552	Transfer Case Motor Clockwise Control	I	—
C	2.5	RD/GY	1342	Battery Positive Voltage	I	—
D	2.5	BK	3250	Ground	I	—

K71 Transmission Control Module



3621452

Connector Part Information

Harness Type: Engine
OEM Connector: 34822-0013
Service Connector: 19329822
Description: 66-Way F 0.64, 2.8 Series, Sealed (BK with BK Terminal Position Assurance)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13575796	J-35616-4A (PU)	J-38125-11A	7116-4150-02	Yazaki 9	Not Available	Not Available
II	13575812	J-35616-64B (LT BU)	J-38125-213	33467-0003	Delphi 23	Not Available	J

K71 Transmission Control Module

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	WH/L-BU	4507	Transmission Clutch H Control	II	—
2	0.5	L-BU	6401	Clutch B Control	II	—
3	0.5	GY/L-GN	6403	Clutch D Control	II	—
4 - 6	—	—	—	Not Occupied	—	—
7	0.5	YE/L-GN	4170	Transmission Position Sensor B 9V Reference	II	—
8	0.5	YE/L-BU	4171	Transmission Position Sensor A 9V Reference	II	—
9 - 12	—	—	—	Not Occupied	—	—
13	0.5	L-GN/VT	4510	Transmission Intermediate Speed Signal	II	—
14	0.5	GY/L-BU	6358	Output Speed Signal	II	—
15	0.5	L-GN/YE	6353	Input Speed Signal	II	—
16	—	—	—	Not Occupied	—	—
17	0.5	WH	4508	Transmission Clutch G Control	II	—
18	0.5	BN	6400	Clutch A Control	II	—
19	0.5	GY	6402	Clutch C Control	II	—
20	0.5	YE/BN	6404	Clutch E Control	II	—
21	0.5	L-GN/WH	6380	TCC On/Off Solenoid A Control	II	—
22	0.5	YE/BN	6210	TCC On/Off Solenoid B Control	II	—
23 - 24	—	—	—	Not Occupied	—	—
25	0.5	BK/GY	3927	IMS Mode Switch Low Reference	II	—

K71 Transmission Control Module (cont'd)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
26 - 27	—	—	—	Not Occupied	—	—
28	0.5	BK/BN	586	Transmission Oil Temperature Sensor Low Reference	II	—
29 - 32	—	—	—	Not Occupied	—	—
33	0.75	L-GN/GY	6387	Transmission High Side Driver 1 Signal Driver	II	—
34	—	—	—	Not Occupied	—	—
35	0.5	VT/BK	2139	Run/Crank Ignition 1 Voltage	II	—
36	—	—	—	Not Occupied	—	—
37	0.5	L-BU	2500	High Speed GMLAN Serial Data (+) 1	II	—
38	0.5	WH	2501	High Speed GMLAN Serial Data (-) 1	II	—
39 - 46	—	—	—	Not Occupied	—	—
47	0.5	GY/YE	4169	PRNDL S Signal	II	—
48	—	—	—	Not Occupied	—	—
49	0.75	GY/BN	6388	Transmission High Side Driver 2 Signal	II	—
50	—	—	—	Not Occupied	—	—
51	0.5	VT/YE	5985	Accessory Wakeup Serial Data	II	—
52	—	—	—	Not Occupied	—	—
53	0.5	L-BU	2500	High Speed GMLAN Serial Data (+) 1	II	—
54	0.5	WH	2501	High Speed GMLAN Serial Data (-) 1	II	—
55 - 58	—	—	—	Not Occupied	—	—
59	0.5	GY/WH	4168	PRNDL P Signal	II	—
60	0.5	WH/BK	5983	PRNDL C Signal	II	—
61	0.5	GY/BN	5982	PRNDL B Signal	II	—
62	0.5	VT/WH	5981	PRNDL A Signal	II	—
63	0.5	BN/WH	585	Transmission Oil Temperature Sensor Signal	II	—
64	—	—	—	Not Occupied	—	—
65	0.75	BK/WH	1451	Signal Ground	I	—
66	0.75	RD/L-GN	1840	Battery Positive Voltage	I	—

K71 Transmission Control Module (MYB)

—

Connector Part Information

Harness Type: Transmission
OEM Connector: Not Available
Service Connector: Service by Harness - See Part Catalog
Description: -Way F

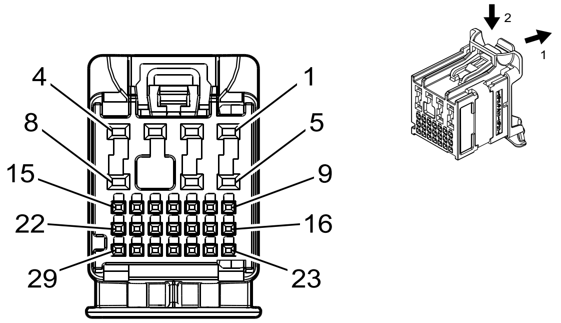
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	Not Available	No Tool Required	Not Required	Not Required	Not Required	Not Required

K71 Transmission Control Module (MYB)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
10	—	BU	2500	High Speed GMLAN Serial Data (+) 1	I	—
11	—	WH	2501	High Speed GMLAN Serial Data (-) 1	I	—
13	—	WH	2501	High Speed GMLAN Serial Data (-) 1	I	—
14	—	BU	2500	High Speed GMLAN Serial Data (+) 1	I	—

K73 Telematics Communication Interface Control Module X1



4496253

Connector Part Information

Harness Type: Body
OEM Connector: 160014-0004
Service Connector: 13506123
Description: 29-Way F 0.5 NANO, 1.2 MCON Series Sealed (BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	19300649	J-35616-16 (LT GN)	J-38125-21	Not Available	Not Available	Not Available	Not Available
II	19354361	EL-35616-58 (BK)	EL-38125-58	Not Available	Not Available	Not Available	Not Available
III	-	EL-35616-58 (BK)	EL-38125-58	Not Available	Not Available	Not Available	Not Available

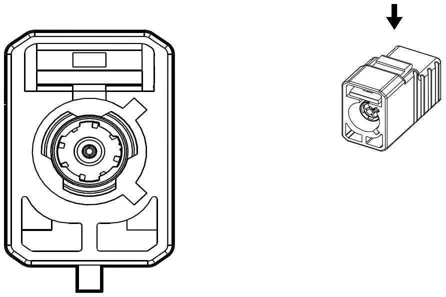
K73 Telematics Communication Interface Control Module X1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	RD/L-BU	3240	Battery Positive Voltage	I	—
2 - 3	—	—	—	Not Occupied	—	—
4	0.5	BK/WH	3451	Signal Ground	I	—
5	—	—	—	Not Occupied	—	—
6	0.35 0.5	L-GN/BK L-GN/BK	2515 2515	Keypad Control Keypad Control	I I	CREW CAB EXTENDED CAB
7	—	—	—	Not Occupied	—	—
8	0.5	BK/WH	3451	Signal Ground	I	—
9	0.35	WH/L-GN	1305	High Speed GMLAN Serial Data (-)9	II	—
10	0.35	L-BU/L-GN	1304	High Speed GMLAN Serial Data (+)9	II	—
11	0.35	L-GN/WH	2514	Keypad Signal	II	—
12	0.35	WH/L-BU	5986	Serial Data Communication Enable	II	—
13	0.5	Bare	1792	Low Reference	III	—
14	0.35	BK/GY	5152	Voice Recognition Audio Low Reference	II	—
15	0.35	GY/YE	5149	Voice Recognition Audio Signal	II	—
16	0.35	WH/L-GN	1305	High Speed GMLAN Serial Data (-)9	II	—

K73 Telematics Communication Interface Control Module X1 (cont'd)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
17	0.35	L-BU/L-GN	1304	High Speed GMLAN Serial Data (+)9	II	—
18	—	—	—	Not Occupied	—	—
19	0.35	YE/VT	2516	Keypad Green LED Control	II	—
20	0.35	Bare	1782	Low Reference	II	—
21	0.35	BK/BN	654	Cellular Telephone Microphone Low Reference	II	—
22	0.35	L-BU	655	Cellular Telephone Microphone Signal	II	—
23	0.35	GY/L-GN	1102	Low Speed GMLAN Serial Data #2	II	—
24 - 25	—	—	—	Not Occupied	—	—
26	0.35	BN/WH	2517	Keypad Red LED Control	II	—
27	—	—	—	Not Occupied	—	—
28	0.35	GY/WH	7211	Ethernet Bus 4 (+)	II	—
29	0.35	GY	7210	Ethernet Bus 4 (-)	II	—

K73 Telematics Communication Interface Control Module X5 (UE1)



2912303

Connector Part Information

Harness Type: Body COAX
OEM Connector: 13581693
Service Connector: Service by Cable Assembly — See Part Catalog
Description: 1-Way F Coax Type (VT)

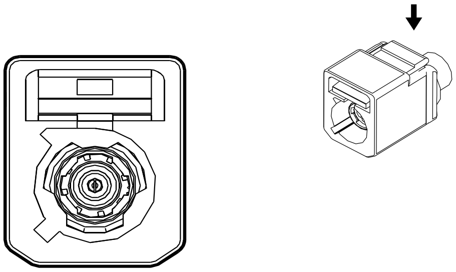
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	No Tool Required	No Tool Required	Not Required	Not Required	Not Required	Not Required

K73 Telematics Communication Interface Control Module X5 (UE1)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
—	—	Coax	—	(Cell only) Coaxial Antenna Cell Phone Signal	I	—

K73 Telematics Communication Interface Control Module X7 (UE1)



4002773

Connector Part Information

Harness Type: Body COAX
OEM Connector: 13581969
Service Connector: Service by Cable Assembly — See Part Catalog
Description: 1-Way F Coax Type (BN)

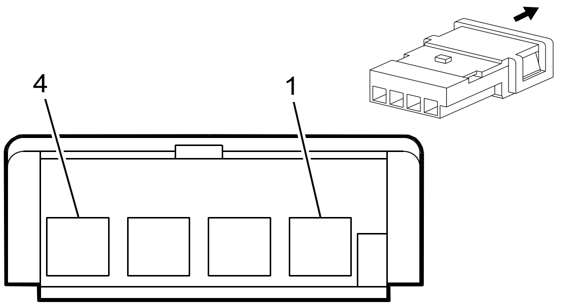
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	No Tool Required	No Tool Required	Not Required	Not Required	Not Required	Not Required

K73 Telematics Communication Interface Control Module X7 (UE1)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
—	—	Coax	—	(GPS/Cell) Coaxial Antenna Cell/GPS combined Signal	I	—

K77 Remote Control Door Lock Receiver



872587

Connector Part Information

Harness Type: Headliner
OEM Connector: 968943-1
Service Connector: 13576534
Description: 4-Way F 0.64 Micro-Quadlock Series (BK)

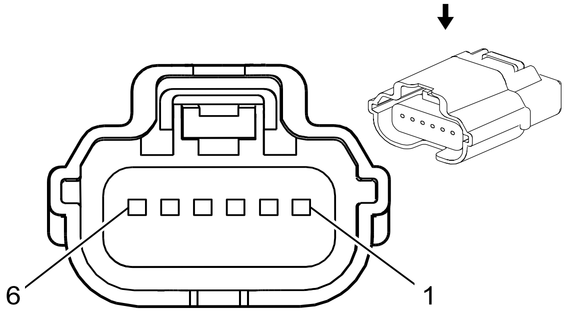
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-64B (LT BU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

K77 Remote Control Door Lock Receiver

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	GY	3273	Remote Function Actuator Low Reference	I	—
2	0.35	YE/L-GN	3274	Remote Function Actuator Transmit Signal	I	—
3	0.35	L-BU/WH	3275	Remote Function Actuator Receive Signal	I	—
4	0.35	GY/WH	3272	Remote Function Actuator Control	I	—

K85 Passenger Presence Module



1974974

Connector Part Information

Harness Type: Passenger Seat Cushion
OEM Connector: 31404-6132
Service Connector: Service by Harness - See Part Catalog
Description: 6-Way F 0.64 Series, Sealed (BK)

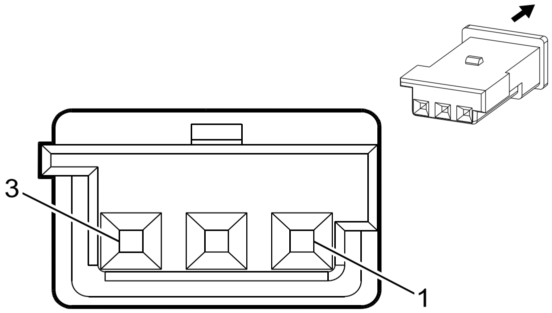
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	Not Available	No Tool Required	Not Required	Not Required	Not Required	Not Required

K85 Passenger Presence Module

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	RD/GN	4440	Battery Positive Voltage	I	—
2	0.35	GN	5060	Low Speed GMLAN Serial Data	I	—
3	—	—	—	Not Occupied	—	—
4	0.35	BK/WH	2251	Signal Ground	I	—
5	0.35	BU/RD	5612	Passenger Seat Belt Tension Sensor 5V Reference	I	—
6	0.35	VT/OG	5611	Passenger Seat Belt Tension Sensor Signal	I	—

K89 Immobilizer Control Module



2179789

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 4-1718346-1
Service Connector: 13576530
Description: 3-Way F 0.64 Micro-Quadlock Series (PU)

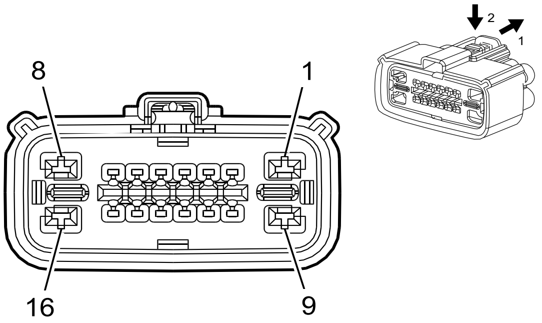
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-64B (LT BU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

K89 Immobilizer Control Module

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	L-GN/GY	3277	Vehicle Anti-Theft System Immobilizer Low Reference	I	—
2	0.35	L-GN/VT	7533	Local Interconnect Network Serial Data Bus 11	I	—
3	0.35	GY/BK	3276	Vehicle Anti-Theft System Immobilizer Control	I	—

K111 Fuel Pump Driver Control Module



4283035

Connector Part Information

Harness Type: Chassis
OEM Connector: 34985-4003
Service Connector: 19352906
Description: 16-Way F 1.5, 2.8 Series, Sealed (BK)

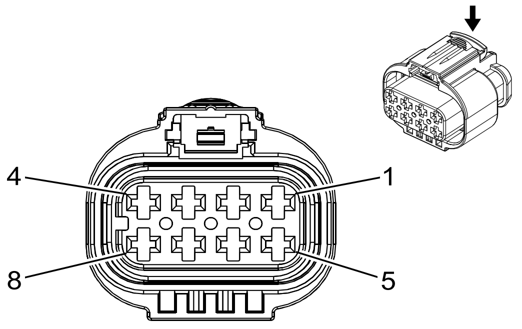
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I		J-35616-35 (VT)	J-38125-12A	1326030-8	Lear 17	4	D
II	13575808	J-35616-2A (GY)	J-38125-217	Not Available	Not Available	Not Available	Not Available
III	19300635	J-35616-2A (GY)	J-38125-217	Not Available	Not Available	Not Available	Not Available

K111 Fuel Pump Driver Control Module

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	2.5	RD/VT	1940	Battery Positive Voltage	I	—
2	0.5	L-GN/GY	465	Fuel Pump Primary Relay Control	III	—
3	—	—	—	Not Occupied	—	—
4	0.5	L-BU/BK	7493	High Speed GMLAN Serial Data (+)3	III	—
5	0.5	WH	7494	High Speed GMLAN Serial Data (-)3	III	—
6	0.75	VT/GY	139	Run/Crank Ignition 1 Voltage	II	—
7	0.5	VT/YE	5985	Accessory Wakeup Serial Data	III	—
8	2.5	GY	120	Fuel Pump Control	I	—
9	2.5	BK	650	Ground	I	—
10 - 14	—	—	—	Not Occupied	—	—
15	0.5	BK	7444	Fuel System Control Module Shield Ground	III	—
16	2.5	BK/L-GN	1580	Fuel Pump Low Reference	I	LCV

K115 Reductant Control Module X1



3749581

Connector Part Information

Harness Type: Chassis
OEM Connector: 2109441-2
Service Connector: -
Description: 8-Way F 2.8 Series, Sealed (BK)

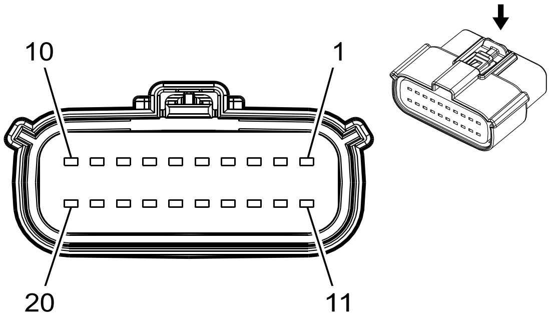
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-4A (PU)	No Tool Required	Not Required	Not Required	Not Required	Not Required
II	Not Required	-	No Tool Required	Not Required	Not Required	Not Required	Not Required

K115 Reductant Control Module X1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	RD/L-GN	2440	Battery Positive Voltage	I	—
2	0.5	WH	4499	High Speed GMLAN Serial Data (-) 7	I	—
3	0.5	L-BU/BN	4498	High Speed GMLAN Serial Data (+) 7	I	—
4	2.5 2.5	BK BK	650 650	Ground Ground	I II	LWN LWN+CREW CAB
5	0.5	VT/L-GN	4320	Selective Catalytic Reduction Power Module Wake-Up Signal	I	—
6	0.5	WH	4499	High Speed GMLAN Serial Data (-) 7	I	—
7	0.5	L-BU/BN	4498	High Speed GMLAN Serial Data (+) 7	I	—
8	2.5 2.5	L-BU L-BU	3921 3921	DEF Heater Supply 1 DEF Heater Supply 1	I II	LWN LWN+CREW CAB

K115 Reductant Control Module X2 (LWN)



2871898

Connector Part Information

Harness Type: Reductant Assembly
OEM Connector: 33472-2006
Service Connector: Service by Harness - See Part Catalog
Description: 20-Way F 150 MX Series, Sealed (BK)

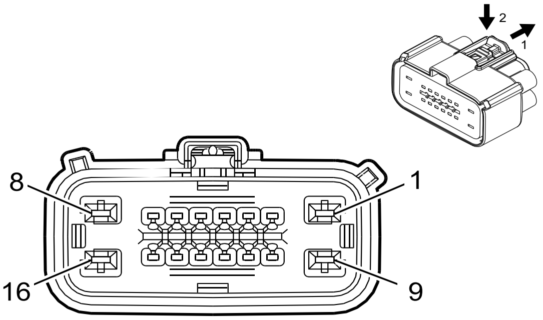
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	Not Available	No Tool Required	Not Required	Not Required	Not Required	Not Required

K115 Reductant Control Module X2 (LWN)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	1.0	BK	9015	Def Smart Pump Control Phase 1	I	—
2	1.0	YE/GY	9008	Def Smart Pump Control Phase 2	I	—
3	1.0	GY/BK	9007	Def Smart Pump Control Phase 3	I	—
4	1.0	BK/WH	9010	Def Tank Heater Low Control	I	—
5	1.0	BK	9014	Pump Ground	I	—
6	—	—	—	Not Occupied	—	—
7	1.0	GY/WH	9017	Reductant Line Heater Control	I	—
8	—	—	—	Not Occupied	—	—
9	0.5	BK/WH	9001	Def Tank Temperature Sensor Signal	I	—
10	0.5	BK	9002	Def Tank Temperature Sensor Low Reference	I	—
11	1.0	GY/WH	9009	Def Reservoir Heater Control	I	—
12	0.5	BK	9005	Def Pressure Sensor 5V Reference	I	—
13	0.5	BK	9004	Def Pressure Sensor Signal	I	—
14	0.5	BK/WH	9003	Def Pressure Sensor Low Reference	I	—
15	0.5	BK	9012	Diesel Exhaust Fluid Sensor Voltage Reference	I	—
16	0.5	BK	9013	Def Tank Level Sensor Signal	I	—
17	0.5	BK/WH	9006	Def Tank Level Sensor Low Reference	I	—
18	0.5	BK	9011	Q Sensor Signal	I	—
19	—	—	—	Not Occupied	—	—
20	1.0	BK/WH	9016	Reductant Line Heater Low Control	I	—

K133 Trailer Brake Power Control Module



4624589

Connector Part Information

Harness Type: Chassis
OEM Connector: 34985-4016
Service Connector: 13599889
Description: 16-Way F 1.5, 2.8 Series, Sealed (GY)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I		J-35616-35 (VT)	J-38125-12A	1326030-8	Lear 17	4	D
II	19300432	J-35616-2A (GY)	J-38125-217	Not Available	Not Available	Not Available	Not Available
III	19300635	J-35616-2A (GY)	J-38125-217	Not Available	Not Available	Not Available	Not Available
IV	-	J-35616-2A (GY)	J-38125-11A	Not Available	Not Available	Not Available	Not Available

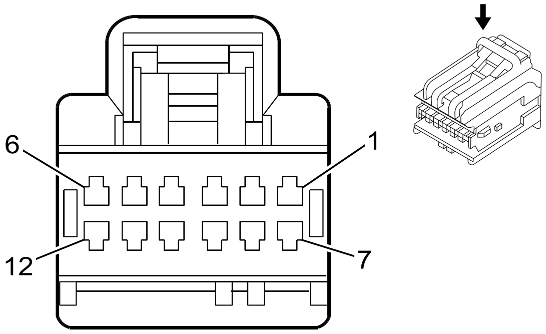
K133 Trailer Brake Power Control Module

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	2.5 2.5	RD/L-GN RD/L-GN	242 242	Battery Positive Voltage Battery Positive Voltage	I IV	LWN LWN+CREW CAB
2	0.5 0.5	WH/BK WH/BK	2223 2223	Trailer Brake Control Signal Trailer Brake Control Signal	II III	LWN LWN+CREW CAB
3 - 4	—	—	—	Not Occupied	—	—
5	0.5 0.5	YE/BK YE/BK	2224 2224	Trailer Brake Enable Signal Trailer Brake Enable Signal	II III	LWN LWN+CREW CAB
6 - 7	—	—	—	Not Occupied	—	—
8	2.5 2.5	L-BU L-BU	47 47	Trailer Auxiliary Control Trailer Auxiliary Control	I IV	LWN LWN+CREW CAB
9	2.5 2.5	BK BK	650 650	Ground Ground	I IV	LWN LWN+CREW CAB
10 - 11	—	—	—	Not Occupied	—	—

K133 Trailer Brake Power Control Module (cont'd)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
12	0.5 0.5	L-GN/VT L-GN/VT	4114 4114	Local Interconnect Network Serial Data Bus 14 Local Interconnect Network Serial Data Bus 14	II III	LWN LWN+CREW CAB
13 - 16	—	—	—	Not Occupied	—	—

K182 Parking Assist Control Module X1



1664569

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 31410-0120
Service Connector: 19354838
Description: 12-Way F 0.64 Series, Sealed (BK)

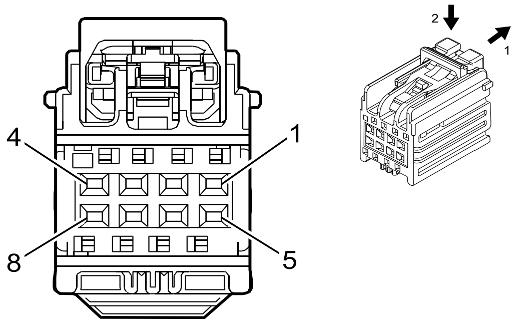
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13575742	J-35616-64B (LT BU)	J-38125-215A	SAIT-A03T-M064	Yazaki 14	P	P
II	13575867	J-35616-64B (LT BU)	J-38125-215A	SAIT-A03T-M064	Yazaki 14	P	P

K182 Parking Assist Control Module X1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.75	RD/L-GN	3140	Battery Positive Voltage	I	—
2	—	—	—	Not Occupied	—	—
3	0.35	L-GN/BN	5852	Rear Park Assist LED Disable Signal	II	—
4 - 7	—	—	—	Not Occupied	—	—
8	0.35	GY/L-GN	2555	Rear Park Assist Disable Signal	II	—
9	0.35	L-GN	5060	Low Speed GMLAN Serial Data	II	—
10	0.5	BK	2050	Ground	I	—
11 - 12	—	—	—	Not Occupied	—	—

K182 Parking Assist Control Module X2



4280711

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 7289-2895-40
Service Connector: 19355209
Description: 8-Way F YESC Kaizen Series (GY)

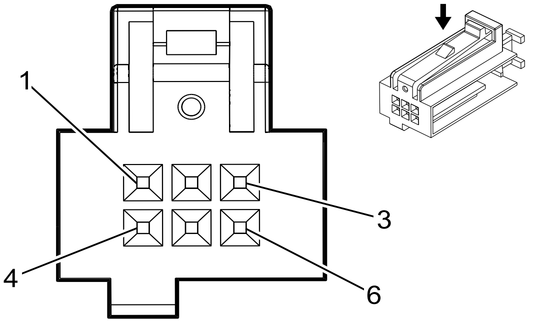
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-64B (LT BU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

K182 Parking Assist Control Module X2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	—	—	—	Not Occupied	—	—
2	0.5	YE/WH	2377	Right Rear Middle Object Sensor Signal	I	—
3	0.5	YE	2375	Left Rear Corner Object Sensor Signal	I	—
4	0.75	BN/WH	2374	Object Sensor Control	I	—
5	0.5	YE/VT	2378	Right Rear Corner Object Sensor Signal	I	—
6	0.5	YE/L-BU	2376	Left Rear Middle Object Sensor Signal	I	—
7	—	—	—	Not Occupied	—	—
8	0.35	BK/GY	2379	Object Sensor Low Reference	I	—

M4 Air Inlet Door Actuator



2220563

Connector Part Information

Harness Type: HVAC
OEM Connector: 1519302
Service Connector: Service by Harness - See Part Catalog
Description: 6-Way F Micro-Quadlock Series (BK)

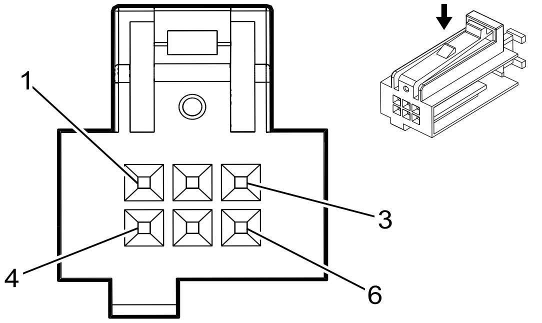
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	-	No Tool Required	Not Required	Not Required	Not Required	Not Required

M4 Air Inlet Door Actuator

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	22	GY	3173	Air Inlet Door Stepper Motor Control 1	I	—
2	22	BK	7572	HVAC Motor Control	I	—
3	22	D-BU/WH	3174	Air Inlet Door Stepper Motor Control 2	I	—
4	22	BN/D-GN	3175	Air Inlet Door Stepper Motor Control 3	I	—
5	—	—	—	Not Occupied	—	—
6	22	RD/D-GN	3176	Air Inlet Door Stepper Motor Control 4	I	—

M6 Air Temperature Door Actuator



2220563

Connector Part Information

Harness Type: HVAC
OEM Connector: 1519302
Service Connector: Service by Harness - See Part Catalog
Description: 6-Way F Micro-Quadlock Series (BK)

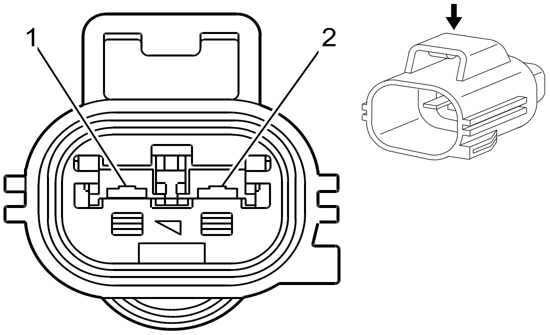
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	-	No Tool Required	Not Required	Not Required	Not Required	Not Required

M6 Air Temperature Door Actuator

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	22	D-GN	3169	Temp Door Stepper Motor Control 1	I	—
2	22	BK	7572	HVAC Motor Control	I	—
3	22	WH/PK	3170	Temp Door Stepper Motor Control 2	I	—
4	22	GY/RD	3171	Temp Door Stepper Motor Control 3	I	—
5	—	—	—	Not Occupied	—	—
6	22	RD/BK	3172	Temp Door Stepper Motor Control 4	I	—

M9 Brake Booster Pump Motor



1826248

Connector Part Information

Harness Type: Engine
OEM Connector: 7282-5575-10
Service Connector: 19115602
Description: 2-Way M 2.8 Series, Sealed (D-GY)

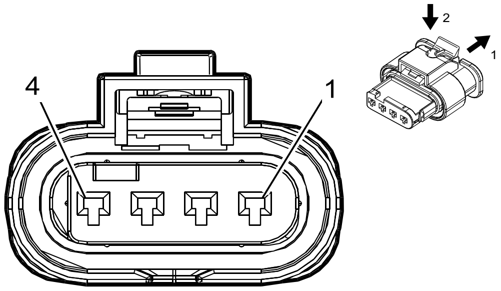
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-5 (PU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

M9 Brake Booster Pump Motor

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	2.5	BN/VT	1470	Brake Booster Pump Motor Control	I	—
2	2.5	BK	1450	Ground	I	—

M26 Front Axle Engagement Actuator



4249158

Connector Part Information

Harness Type: Power Steering
OEM Connector: 4-2272005-1
Service Connector: Service by Harness - See Part Catalog
Description: 4-Way F 1.2 MCON Series (BK)

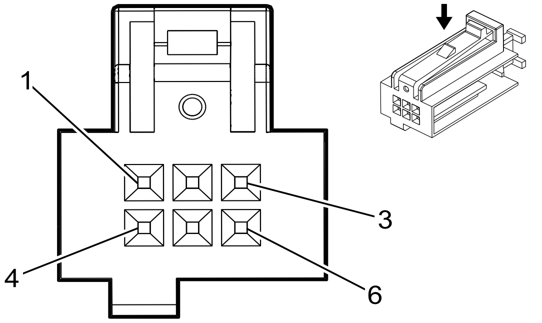
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-16 (LT GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

M26 Front Axle Engagement Actuator

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.75	VT/BK	2139	Run/Crank Ignition 1 Voltage	I	—
2	0.5	GY/BK	1570	Front Axle Actuator Control	I	—
3	0.5	YE/WH	1695	Four Wheel Drive Wheel Lock Indicator Control	I	—
4	0.75	BK	1450	Ground	I	—

M37 Mode Door Actuator



2220563

Connector Part Information

Harness Type: HVAC
OEM Connector: 1519302
Service Connector: Service by Harness - See Part Catalog
Description: 6-Way F Micro-Quadlock Series (BK)

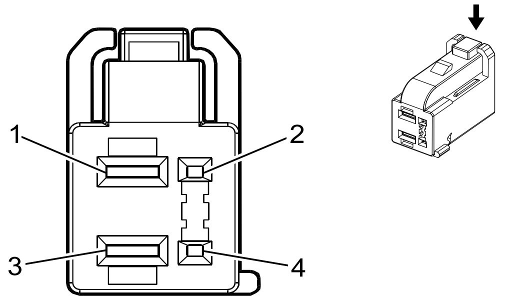
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	-	No Tool Required	Not Required	Not Required	Not Required	Not Required

M37 Mode Door Actuator

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	22	YE	3165	Mode Door Stepper Motor Control 1	I	—
2	22	BK	7572	HVAC Motor Control	I	—
3	22	WH/RD	3166	Mode Door Stepper Motor Control 2	I	—
4	22	GY/BN	3167	Mode Door Stepper Motor Control 3	I	—
5	—	—	—	Not Occupied	—	—
6	22	D-GN/WH	3168	Mode Door Stepper Motor Control 4	I	—

M51D Seat Horizontal Motor - Driver



3683652

Connector Part Information

Harness Type: Driver Seat Cushion
OEM Connector: 3-023-66-52
Service Connector: Service by Harness - See Part Catalog
Description: 4-Way F 0.64, 2.8 Series (BN)

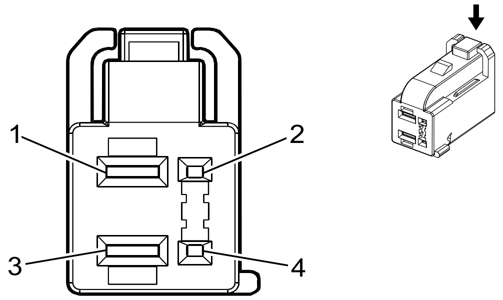
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	Not Available	No Tool Required	Not Required	Not Required	Not Required	Not Required

M51D Seat Horizontal Motor - Driver

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	1.5	YE/BU	285	Driver Power Seat Horizontal Motor Forward Control	I	—
2	—	—	—	Not Occupied	—	—
3	1.5	GY/GN	284	Driver Power Seat Horizontal Motor Rearward Control	I	—
4	—	—	—	Not Occupied	—	—

M51P Seat Horizontal Motor - Passenger (AAQ)



3683652

Connector Part Information

Harness Type: Passenger Seat Cushion
OEM Connector: 3-023-66-52
Service Connector: Service by Harness - See Part Catalog
Description: 4-Way F 0.64, 2.8 Series (BN)

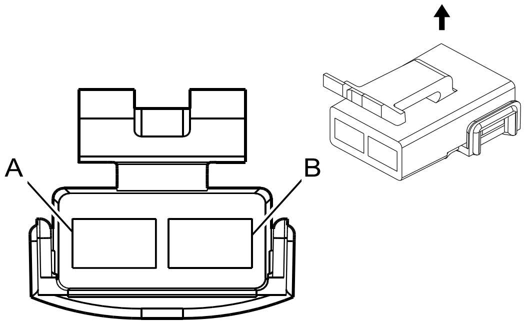
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	Not Available	No Tool Required	Not Required	Not Required	Not Required	Not Required

M51P Seat Horizontal Motor - Passenger (AAQ)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	1.5	YE/WH	296	Passenger Power Seat Horizontal Motor Forward Control	I	—
2	—	—	—	Not Occupied	—	—
3	1.5	YE/BU	290	Passenger Power Seat Horizontal Motor Rearward Control	I	—
4	—	—	—	Not Occupied	—	—

M52D Seat Lumbar Support Horizontal Motor - Driver (AL9)



130707

Connector Part Information

Harness Type: Driver Seat Back
OEM Connector: 12020556
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way F 480 Metri-Pack Series (BK)

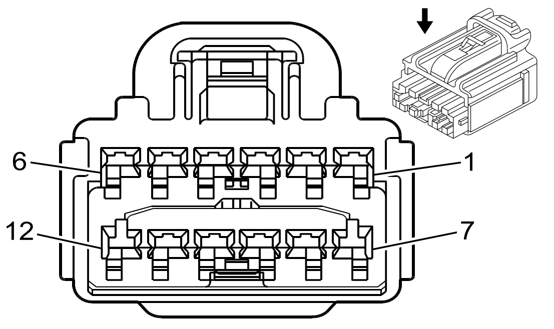
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	Not Available	No Tool Required	Not Required	Not Required	Not Required	Not Required

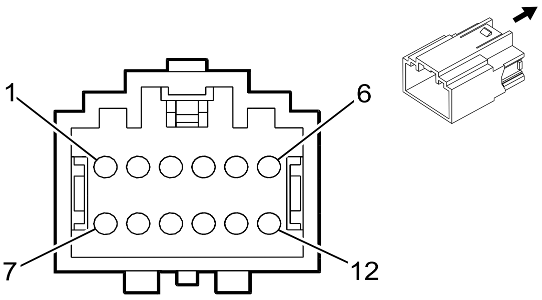
M52D Seat Lumbar Support Horizontal Motor - Driver (AL9)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	1.5	VT	610	Driver Power Seat Lumbar Motor Rearward Control	I	—
B	1.5	BU	611	Driver Power Seat Lumbar Motor Forward Control	I	—

M52P Seat Lumbar Support Horizontal Motor - Passenger (AAQ)



1856789



3240100

Connector Part Information

Harness Type: Right Rear Door
OEM Connector: 7283-3442-40
Service Connector: Service by Harness - See Part Catalog
Description: 12-Way F YESC Kaizen Series (L-GY)

Connector Part Information

Harness Type: Body
OEM Connector: 7282-3442-40
Service Connector: 88988266
Description: 12-Way M 1.5 Series (L-GY)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-2A (GY)	No Tool Required	Not Required	Not Required	Not Required	Not Required
II	13575818	J-35616-3 (GY)	J-38125-553	Not Available	Not Available	Not Available	Not Available
III	19329753	J-35616-3 (GY)	J-38125-12A	Not Available	Not Available	Not Available	Not Available

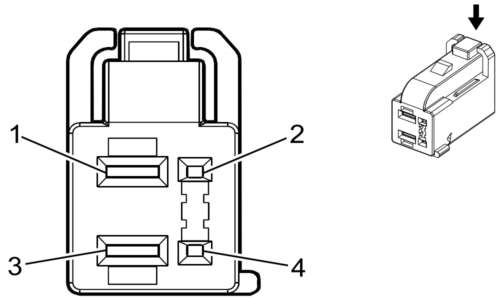
M52P Seat Lumbar Support Horizontal Motor - Passenger (AAQ)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	—	—	—	—	—	Not Occupied	1	—	—	—	—	—
2	0.5	OG/BN	3479	I	—	Passenger Seat Belt Anchor Pretensioner High Control	2	0.35	OG/BN	3479	III	—
3	0.5	OG/L-GN	3475	I	—	Passenger Seat Belt Retractor Pretensioner High Control	3	0.35	OG/L-GN	3475	III	—
4	1	L-BU/BK	115	I	—	Right Rear Speaker Signal (-)	4	1	L-BU/BK	115	II	—
5	0.35	GY	748	I	—	Right Rear Door Ajar Switch Signal	5	0.35	GY	748	II	—
6 - 7	—	—	—	—	—	Not Occupied	6 - 7	—	—	—	—	—

M52P Seat Lumbar Support Horizontal Motor - Passenger (AAQ) (cont'd)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
8	0.5	GY/ OG	3480	I	—	Passenger Seat Belt Anchor Pretensioner Low Control	8	0.35	GY/ OG	3480	III	—
9	0.5	WH/ OG	3476	I	—	Passenger Seat Belt Retractor Pretensioner Low Control	9	0.35	WH/ OG	3476	III	—
10	1	WH	46	I	—	Right Rear Speaker Control (+)	10	1	WH	46	II	—
11	0.35	BK	3450	I	—	Ground	11	0.5	BK	3450	II	—
12	—	—	—	—	—	Not Occupied	12	—	—	—	—	—

M55D Seat Rear Vertical Motor - Driver



3683652

Connector Part Information

Harness Type: Driver Seat Cushion
OEM Connector: 3-023-66-52
Service Connector: Service by Harness - See Part Catalog
Description: 4-Way F 0.64, 2.8 Series (BN)

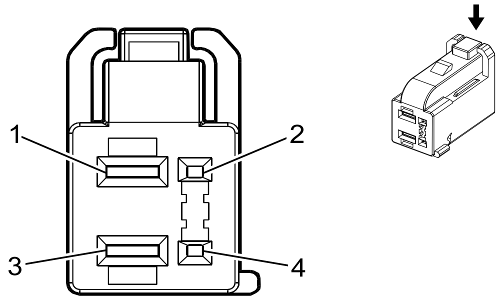
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	Not Available	No Tool Required	Not Required	Not Required	Not Required	Not Required

M55D Seat Rear Vertical Motor - Driver

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	1.5	GY/BU	283	Driver Power Seat Rear Vertical Motor Down Control	I	—
2	—	—	—	Not Occupied	—	—
3	1.5	YE	282	Driver Power Seat Rear Vertical Motor Up Control	I	—
4	—	—	—	Not Occupied	—	—

M55P Seat Rear Vertical Motor - Passenger (AAQ)



3683652

Connector Part Information

Harness Type: Passenger Seat Cushion
OEM Connector: 3-023-66-52
Service Connector: Service by Harness - See Part Catalog
Description: 4-Way F 0.64, 2.8 Series (BN)

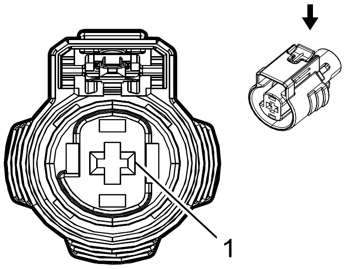
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	Not Available	No Tool Required	Not Required	Not Required	Not Required	Not Required

M55P Seat Rear Vertical Motor - Passenger (AAQ)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	1.5	GN/WH	288	Passenger Power Seat Rear Vertical Motor Up Control	I	—
2	—	—	—	Not Occupied	—	—
3	1.5	BU/WH	289	Passenger Power Seat Rear Vertical Motor Down Control	I	—
4	—	—	—	Not Occupied	—	—

M64 Starter Motor X1



2717134

Connector Part Information

Harness Type: Engine
OEM Connector: 2098198-5
Service Connector: 19300471
Description: 1-Way F 2.8 MCP Series, Sealed (BK)

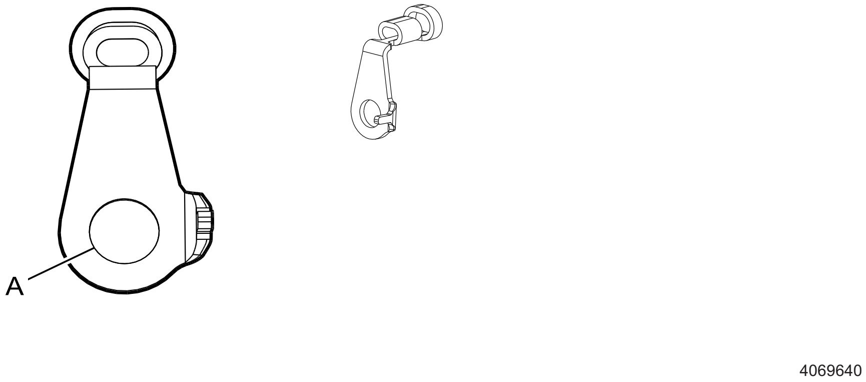
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-35 (VT)	No Tool Required	Not Required	Not Required	Not Required	Not Required
II	Not Required	J-35616-4A (PU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

M64 Starter Motor X1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	2.5	YE	6	Starter Solenoid Crank Ignition Voltage	I	LCV
	2.5	YE	6	Starter Solenoid Crank Ignition Voltage	II	LGZ
	2	YE	6	Starter Solenoid Crank Ignition Voltage	I	LWN

M64 Starter Motor X2 (LCV)



Connector Part Information

Harness Type: Battery Cable
OEM Connector: BBS18185
Service Connector: Service by Cable Assembly — See Part Catalog
Description: 1-Way Ring Terminal

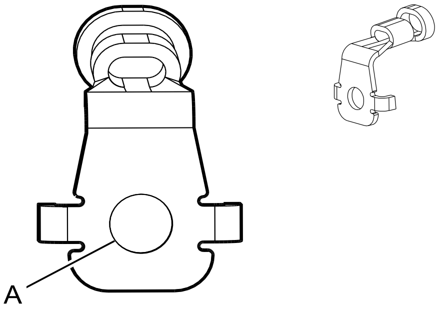
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	No Tool Required	No Tool Required	Not Required	Not Required	Not Required	Not Required

M64 Starter Motor X2 (LCV)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	35	RD/YE	2	Battery Positive Voltage	I	—

M64 Starter Motor X2 (LGZ)



4069670

Connector Part Information

Harness Type: Starter Cable
OEM Connector: BBS47641
Service Connector: Service by Cable Assembly — See Part Catalog
Description: 1-Way Ring Terminal

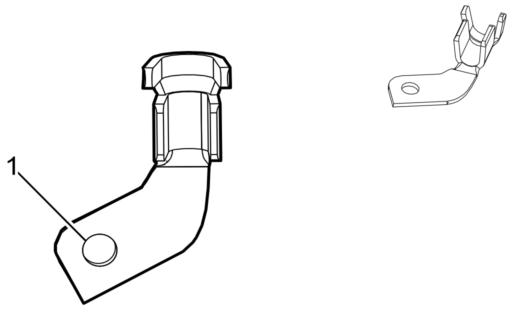
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	No Tool Required	No Tool Required	Not Required	Not Required	Not Required	Not Required

M64 Starter Motor X2 (LGZ)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	35	RD/YE	2	Battery Positive Voltage	I	—

M64 Starter Motor X2 (LWN)



4293880

Connector Part Information

Harness Type: Starter Cable
OEM Connector: BBS17174
Service Connector: Service by Cable Assembly — See Part Catalog
Description: 1-Way Ring Terminal

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	No Tool Required	No Tool Required	Not Required	Not Required	Not Required	Not Required

M64 Starter Motor X2 (LWN)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	—	—	—	Not Occupied	—	—
A	50	RD/YE	2	Battery Positive Voltage	I	—

M73A Seat Blower Motor - Driver Back (KU1)

—

Connector Part Information

Harness Type: Drivers Seat Back
OEM Connector: Not Available
Service Connector: Service by Harness - See Part Catalog
Description: 4-Way

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	Not Available	No Tool Required	Not Required	Not Required	Not Required	Not Required

M73A Seat Blower Motor - Driver Back (KU1)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	VT/BK	1239	Run/Crank Ignition 1 Voltage	I	—
2	0.5	GN/VT	5906	Driver Seat Vent Motor Control 1	I	—
3	0.5	BK	2150	Ground	I	—

M73B Seat Blower Motor - Passenger Back (KU3)

—

Connector Part Information

Harness Type: Passenger Seat Back
OEM Connector: Not Available
Service Connector: Service by Harness - See Part Catalog
Description: 4-Way

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	Not Available	No Tool Required	Not Required	Not Required	Not Required	Not Required

M73B Seat Blower Motor - Passenger Back (KU3)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	VT/BK	1239	Run/Crank Ignition 1 Voltage	I	—
2	0.5	VT/WH	5908	Passenger Seat Vent Motor Control 1	I	—
3	0.5	BK	2250	Ground	I	—

M73C Seat Blower Motor - Driver Cushion (KU1)

—

Connector Part Information

Harness Type: Driver Seat Cushion
OEM Connector: Not Available
Service Connector: Service by Harness - See Part Catalog
Description: 4-Way

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	Not Available	No Tool Required	Not Required	Not Required	Not Required	Not Required

M73C Seat Blower Motor - Driver Cushion (KU1)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	VT/BK	1239	Run/Crank Ignition 1 Voltage	I	—
2	0.5	GN/VT	5906	Driver Seat Vent Motor Control 1	I	—
3	0.5	BK	2150	Ground	I	—

M73D Seat Blower Motor - Passenger Cushion (KU3)

—

Connector Part Information

Harness Type: Passenger Seat Cushion
OEM Connector: Not Available
Service Connector: Service by Harness - See Part Catalog
Description: 4-Way

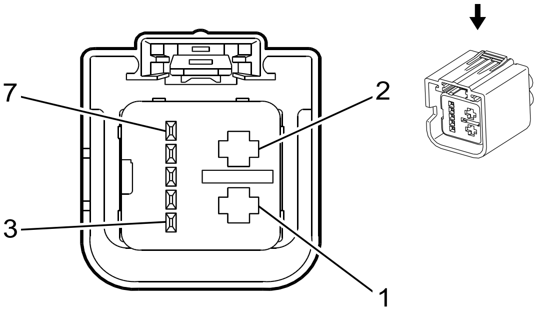
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	Not Available	No Tool Required	Not Required	Not Required	Not Required	Not Required

M73D Seat Blower Motor - Passenger Cushion (KU3)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	VT/BK	1239	Run/Crank Ignition 1 Voltage	I	—
2	0.5	VT/WH	5908	Passenger Seat Vent Motor Control 1	I	—
3	0.5	BK	2250	Ground	I	—

M74D Window Motor - Driver



2282932

Connector Part Information

Harness Type: Driver Door
OEM Connector: 1-1732115-1
Service Connector: Service by Harness - See Part Catalog
Description: 7-Way F 0.64, 2.8 Kaizen Timer Series, Sealed (GY)

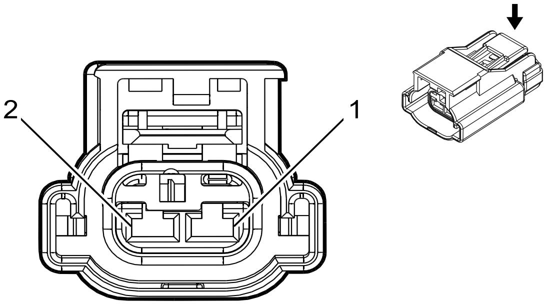
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-4A (PU)	No Tool Required	Not Required	Not Required	Not Required	Not Required
II	Not Required	J-35616-64B (LT BU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

M74D Window Motor - Driver

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	2.5	BK	3550	Ground	I	—
2	2.5	RD/L-BU	1240	Battery Positive Voltage	I	—
3	0.35	L-GN/WH	1300	Power Window Master Switch Left Front Up Signal	II	—
4	0.5	L-GN/YE	6134	Local Interconnect Network Serial Data Bus 3	II	—
5	0.35	L-GN/VT	7628	Power Window Motor Left Front Express Control	II	—
6	0.35	GY	745	Left Front Door Ajar Switch Signal	II	—
7	0.35	GY	1136	Power Window Master Switch Left Front Down Signal	II	—

M74LR Window Motor - Left Rear (Crew Cab)



2716333

Connector Part Information

Harness Type: Left Rear Door
OEM Connector: 54200220N
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way F 2.8 Series, Sealed (BK)

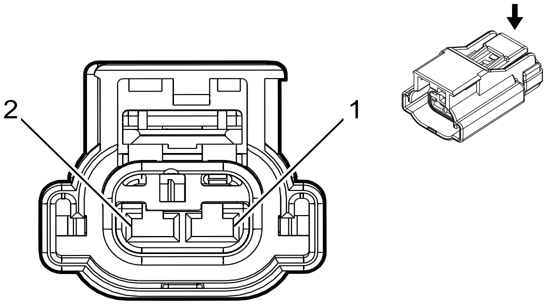
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	-	No Tool Required	Not Required	Not Required	Not Required	Not Required

M74LR Window Motor - Left Rear (Crew Cab)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	2.5	L-BU/VT	668	Power Window Motor Left Rear Up Control	I	—
2	2.5	YE/L-BU	669	Power Window Motor Left Rear Down Control	I	—

M74P Window Motor - Passenger



2716333

Connector Part Information

Harness Type: Passenger Door
OEM Connector: 54200220N
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way F 2.8 Series, Sealed (BK)

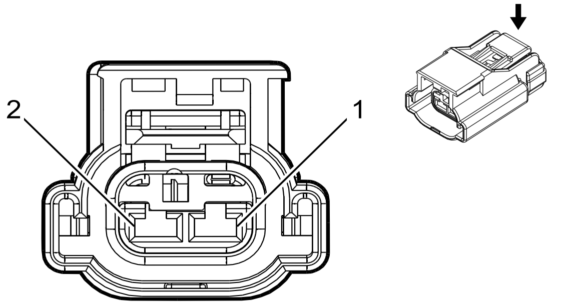
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	-	No Tool Required	Not Required	Not Required	Not Required	Not Required

M74P Window Motor - Passenger

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	2.5	YE/L-BU	3388	Power Window Motor Passenger Down Control	I	—
2	2.5	L-GN/GY	3387	Power Window Motor Passenger Up Control	I	—

M74RR Window Motor - Right Rear



2716333

Connector Part Information

Harness Type: Right Rear Door
OEM Connector: 54200220N
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way F 2.8 Series, Sealed (BK)

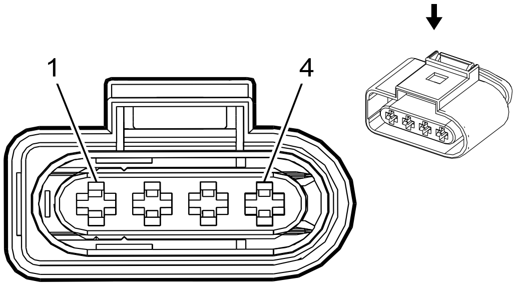
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-4A (PU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

M74RR Window Motor - Right Rear

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	2.5	L-BU/GY	670	Power Window Motor Right Rear Up Control	I	—
2	2.5	L-GN/BK	671	Power Window Motor Right Rear Down Control	I	—

M75 Windshield Wiper Motor



2474722

Connector Part Information

Harness Type: Body
OEM Connector: 638245-2
Service Connector: 88987987
Description: 4-Way F Junior Power Timer Series (BK)

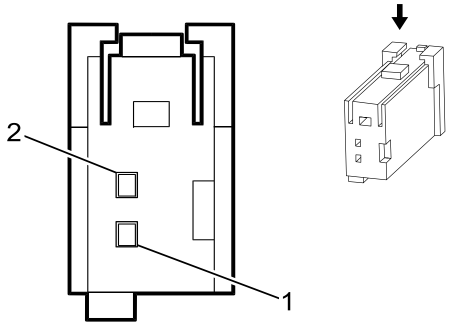
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-4A (PU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

M75 Windshield Wiper Motor

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	BN/L-GN	196	Windshield Wiper Motor Park Switch Signal	I	—
2	1.5	YE/BN	95	Windshield Wiper Motor Low Speed Control	I	—
3	1.5	BK	3150	Ground	I	—
4	1.5	WH	92	Windshield Wiper Motor High Speed Control	I	—

M93 Key Capture Solenoid Actuator



2173598

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: AIT2PB-02A-1AK
Service Connector: 13314093
Description: 2-Way F 0.64 Series (BK)

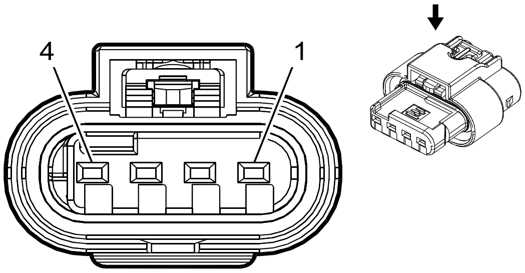
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-64B (LT BU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

M93 Key Capture Solenoid Actuator

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	VT/YE	143	Accessory Ignition Voltage	I	—
2	0.35	BK	2050	Ground	I	—

M96A Active Grille Air Shutter 1 Actuator



2596543

Connector Part Information

Harness Type: Forward Lamp
OEM Connector: 13576420
Service Connector: Not Available
Description: 4-Way F 1.2 MCP Series, Sealed (BK)

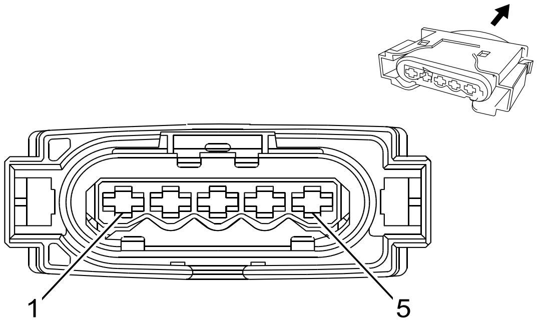
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	Not Available	No Tool Required	Not Required	Not Required	Not Required	Not Required

M96A Active Grille Air Shutter 1 Actuator

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	WH/VT	4333	Aero Shutter Actuator Control	I	—
2	0.5	GY	3890	Aero Shutter Control 2	I	—
3	—	—	—	Not Occupied	—	—
4	0.75	BK	1250	Ground	I	—

M103 Turbocharger Vane Position Actuator



3794114

Connector Part Information

Harness Type: Engine
OEM Connector: 09-4415-81
Service Connector: -
Description: 5-Way F 2.8 SLK Series (BK)

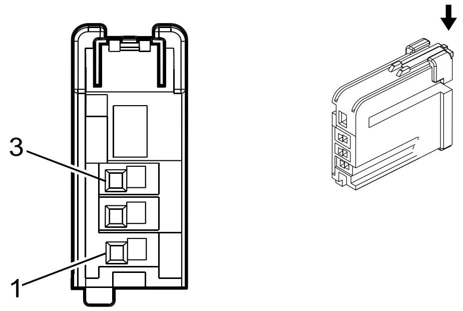
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-4A (PU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

M103 Turbocharger Vane Position Actuator

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	GY/L-BU	5930	Variable Nozzle Turbo Solenoid High Signal	I	—
2	0.5	WH/BK	5931	Variable Nozzle Turbo Solenoid Low Signal	I	—
3	0.5	BK/BN	5929	Variable Nozzle Turbo Position Sensor Low Reference	I	—
4	0.5	VT/YE	5947	Variable Nozzle Turbo Position Sensor Signal	I	—
5	0.5	GY/RD	5928	Variable Nozzle Turbo Position Sensor 5V Reference	I	—

P2 Transmission Shift Lever Position Indicator



Connector Part Information

Harness Type: Floor Console
OEM Connector: AIT2PB-03B-1AK
Service Connector: Service by Harness - See Part Catalog
Description: 3-Way F 0.64 Series (BK)

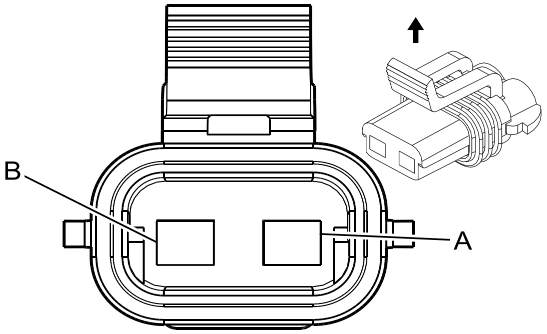
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-64B (LT BU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

P2 Transmission Shift Lever Position Indicator

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	VT	801	Retained Accessory Power Fuse Control	I	—
2	0.5	L-GN/L-BU	6133	Local Interconnect Network Serial Data Bus 2	I	—
3	0.35 0.5	BK BK	2050 2050	Ground Ground	I I	(M5T/MYB)-K4C K4C+(M5T/MYB)

P3 Backup Alarm



68721

Connector Part Information

Harness Type: Chassis
OEM Connector: 15300027
Service Connector: -
Description: 2-Way F 280 Metri-Pack Series, Sealed (BK)

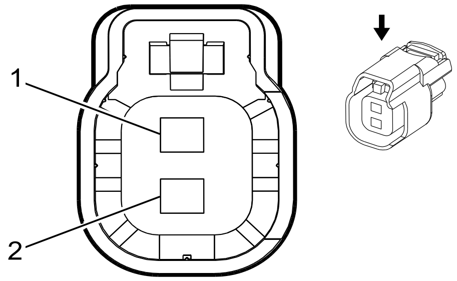
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-4A (PU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

P3 Backup Alarm

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.75	GY	1624	Trailer Backup Lamp Control	I	—
B	0.75	BK	22	Trailer Ground	I	—

P13 Horn Assembly



2422378

Connector Part Information

Harness Type: Forward Lamp
OEM Connector: 34062-0028
Service Connector: 13579002
Description: 2-Way F 1.5 Series, Sealed (BK)

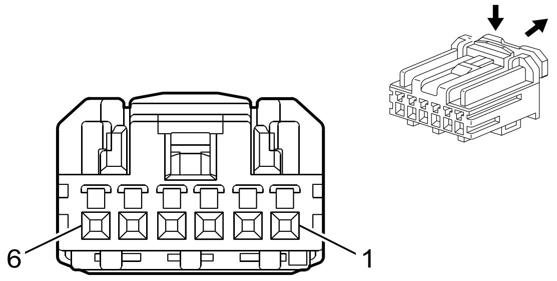
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-14 (GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

P13 Horn Assembly

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	1	BK	1150	Ground	I	—
2	0.75	BN/GY	29	Horn Control	I	—

P14 Passenger Air Bag Disabled Indicator



4650256

Connector Part Information

Harness Type: Headliner
OEM Connector: HCMPB-C06A-S
Service Connector: 19367172
Description: 6-Way F 0.64 HCM Series (NA)

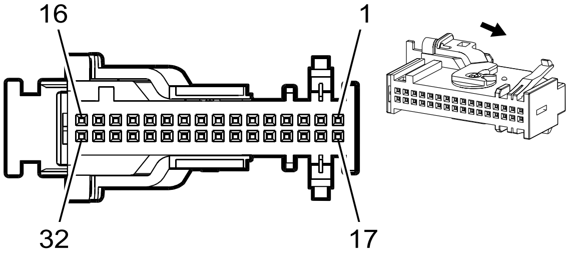
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-64B (LT BU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

P14 Passenger Air Bag Disabled Indicator

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	L-BU	2307	Passenger Air Bag On Indicator Control	I	—
2	0.5	BK	3150	Ground	I	—
3	0.35	L-GN	2308	Passenger Air Bag Off Indicator Control	I	—
4	0.35	VT/WH	1139	Run/Crank Ignition 1 Voltage	I	—
5	0.35	VT/WH	5234	Passenger Seat Belt Indicator Control	I	—
6	—	—	—	Not Occupied	—	—

P16 Instrument Cluster (UDC)



627214

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 2-2236674-1
Service Connector: -
Description: 32-Way F 0.64 Micro-Quadlock Series (GY)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13575584	J-35616-64B (LT BU)	J-38125-12A	Not Available	Not Available	Not Available	Not Available
II	13575587	J-35616-64B (LT BU)	J-38125-12A	Not Available	Not Available	Not Available	Not Available
III	13575859	J-35616-64B (LT BU)	J-38125-12A	Not Available	Not Available	Not Available	Not Available

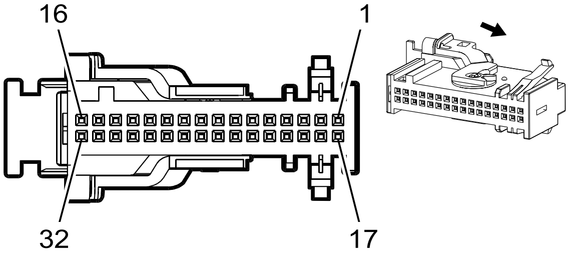
P16 Instrument Cluster (UDC)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1 - 2	—	—	—	Not Occupied	—	—
3	0.5	GY/L-GN	1102	Low Speed GMLAN Serial Data #2	III	—
4 - 6	—	—	—	Not Occupied	—	—
7	0.5	RD/GY	2840	Battery Positive Voltage	III	—
8	0.5	VT/BK	1639	Run/Crank Ignition 1 Voltage	III	—
9	0.35	GY/L-BU	893	Driver Information Center Select Menu Switch Signal	I	—
10 - 12	—	—	—	Not Occupied	—	—
13	0.35	BK/BN	897	Driver Information Center Switch Low Reference	I	—
14	0.35	L-GN/WH	1358	Driver Information Center Switch Signal	I	—
15	—	—	—	Not Occupied	—	—
16	0.35	BN/WH	419	Check Engine Indicator Control	I	—
17 - 18	—	—	—	Not Occupied	—	—
19	0.5	BK/WH	2151	Signal Ground	III	—
20	0.5	L-GN/BK	3894	Local Interconnect Network Serial Data Bus 12	III	—
21 - 23	—	—	—	Not Occupied	—	—
24	0.35	VT	185	Low Washer Fluid Indicator Control	II	—
25 - 31	—	—	—	Not Occupied	—	—

P16 Instrument Cluster (UDC) (cont'd)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
32	0.35	L-GN/BN	507	Wait To Start Indicator Control	II	—

P16 Instrument Cluster (UDD)



627214

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 2-2236674-1
Service Connector: -
Description: 32-Way F 0.64 Micro-Quadlock Series (GY)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13575584	J-35616-64B (LT BU)	J-38125-12A	Not Available	Not Available	Not Available	Not Available
II	13575587	J-35616-64B (LT BU)	J-38125-12A	Not Available	Not Available	Not Available	Not Available
III	13575859	J-35616-64B (LT BU)	J-38125-12A	Not Available	Not Available	Not Available	Not Available

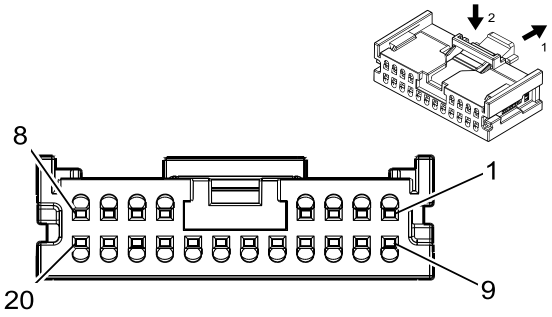
P16 Instrument Cluster (UDD)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	GY/L-BU	7217	Ethernet Bus 7 (+)	I	—
2	—	—	—	Not Occupied	—	—
3	0.5	GY/L-GN	1102	Low Speed GMLAN Serial Data #2	III	—
4 - 6	—	—	—	Not Occupied	—	—
7	0.5	RD/GY	2840	Battery Positive Voltage	III	—
8	0.5	VT/BK	1639	Run/Crank Ignition 1 Voltage	III	—
9 - 11	—	—	—	Not Occupied	—	—
12	0.35	GY/YE	3885	Forward Collision Alert LED Control	I	—
13 - 15	—	—	—	Not Occupied	—	—
16	0.35	BN/WH	419	Check Engine Indicator Control	I	—
17	0.35	BN/L-BU	7216	Ethernet Bus 7 (-)	I	—
18	—	—	—	Not Occupied	—	—
19	0.5	BK/WH	2151	Signal Ground	III	—
20	0.5	L-GN/BK	3894	Local Interconnect Network Serial Data Bus 12	III	—
21 - 23	—	—	—	Not Occupied	—	—
24	0.35	VT	185	Low Washer Fluid Indicator Control	I	—
25 - 29	—	—	—	Not Occupied	—	—

P16 Instrument Cluster (UDD) (cont'd)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
30	0.35	WH/L-GN	3535	Reflected LED Display Dimming Control	II	—
31	—	—	—	Not Occupied	—	—
32	0.35	L-GN/BN	507	Wait To Start Indicator Control	I	—

P17 Info Display Module X1 (IOR)



4231339

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 34824-2200
Service Connector: 13596105
Description: 20-Way F Mini 50 Series (BK)

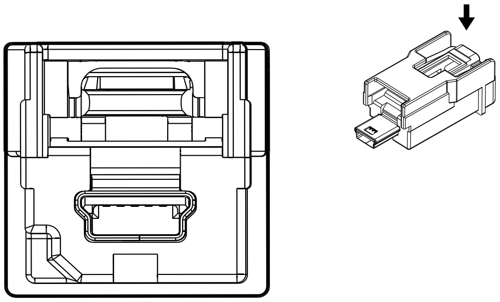
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	19333221	EL-35616-58 (BK)	J-38125-553	Not Available	Not Available	Not Available	Not Available

P17 Info Display Module X1 (IOR)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	L-BU/RD	2807	Radio Keypad Voltage Reference	I	—
2	0.35	GY/L-BU	2803	Radio Display Touch Interrupt Request Signal	I	—
3	—	—	—	Not Occupied	—	—
4	0.35	L-BU	4315	Radio Volume Up Signal	I	—
5	0.35	GY/BN	4314	Radio Volume Down Signal	I	—
6	0.35	BN/WH	2809	Radio Keypad Power Signal	I	—
7	0.35	VT/WH	2810	Radio Keypad Button Signal	I	—
8	0.35	L-BU/GY	2808	Radio Keypad Dimming Control	I	—
9	0.35	L-BU/L-GN	2813	Radio Display Backlight Dimming Control	I	—
10	—	—	—	Not Occupied	—	—
11	0.35	BK/L-GN	2804	Radio Display Backlight Low Reference	I	—
12	0.35	L-BU/RD	2807	Radio Keypad Voltage Reference	I	—
13	—	—	—	Not Occupied	—	—
14	0.35	L-BU	4315	Radio Volume Up Signal	I	—
15	0.35	GY/BN	4314	Radio Volume Down Signal	I	—
16	0.35	BN/WH	2809	Radio Keypad Power Signal	I	—
17	0.35	VT/WH	2810	Radio Keypad Button Signal	I	—
18	0.35	L-BU/GY	2808	Radio Keypad Dimming Control	I	—
19	0.35	GY/VT	3363	Navigation Display Dimming Control	I	—
20	0.35	BK/YE	2806	Radio Keypad Low Reference	I	—

P17 Info Display Module X2 (IOR)



2807491

Connector Part Information

Harness Type: Instrument Panel USB
OEM Connector: 13580203
Service Connector: Service by Cable Assembly — See Part Catalog
Description: 5-Way M 2.0 Mini-B USB Type (GY)

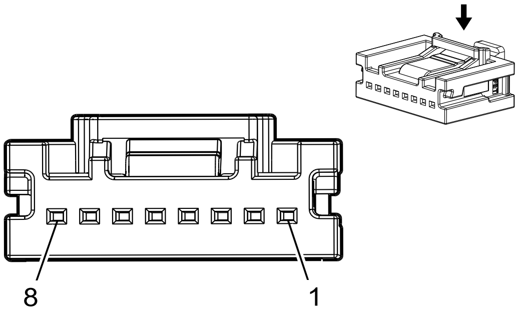
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	No Tool Required	No Tool Required	Not Required	Not Required	Not Required	Not Required

P17 Info Display Module X2 (IOR)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
—	—	USB	—	USB Serial Data	I	—

P17 Info Display Module X1 (IOS/IOT)



4017639

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 34791-5180
Service Connector: 19354223
Description: 8-Way F Mini 50 Series (BK)

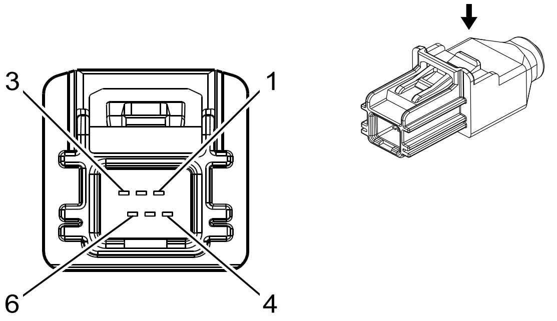
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	EL-35616-58 (BK)	No Tool Required	Not Required	Not Required	Not Required	Not Required

P17 Info Display Module X1 (IOS/IOT)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	RD/GY	2840	Battery Positive Voltage	I	—
2 - 7	—	—	—	Not Occupied	—	—
8	0.35	BK/WH	2051	Signal Ground	I	—

P17 Info Display Module X2 (IOS/IOT)



4806625

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 100337-1020
Service Connector: -
Description: 6-Way M HSAL-2 Series (BK)

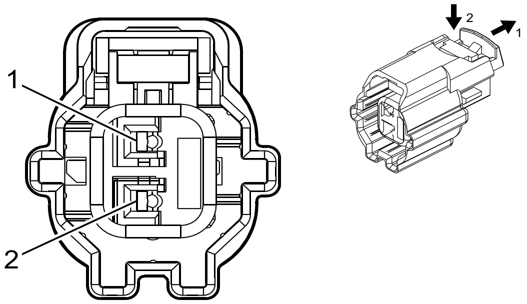
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	No Tool Required	No Tool Required	Not Required	Not Required	Not Required	Not Required

P17 Info Display Module X2 (IOS/IOT)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	Bare	3365	Navigation Display Low Reference	I	—
2	0.35	L-BU	3366	Navigation Display Signal (+)	I	—
3	0.35	BN	3367	Navigation Display Signal (-)	I	—
4 - 6	—	—	—	Not Occupied	—	—

P19AG Speaker - Left Front Door



4840334

Connector Part Information

Harness Type: Driver Door
OEM Connector: 148032-0005
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way F 150 MX Series (BK)

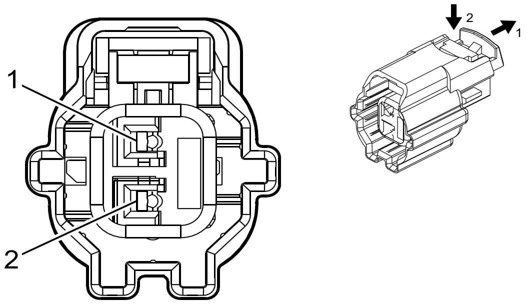
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-2A (GY)	No Tool Required	Not Required	Not Required	Not Required	Not Required

P19AG Speaker - Left Front Door

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	1	BN/L-BU	118	Left Front Speaker Signal (-) 1	I	—
2	1	L-BU	201	Left Front Speaker Control (+) 1	I	—

P19AH Speaker - Right Front Door



4840334

Connector Part Information

Harness Type: Passenger Door
OEM Connector: 148032-0005
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way F 150 MX Series (BK)

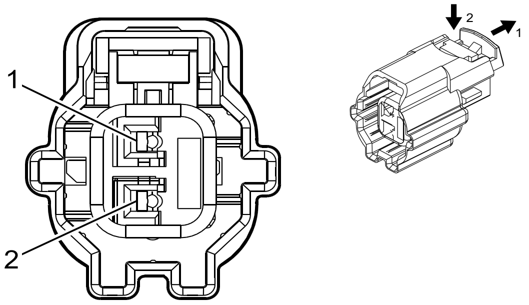
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-2A (GY)	No Tool Required	Not Required	Not Required	Not Required	Not Required

P19AH Speaker - Right Front Door

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	1	YE/BK	117	Right Front Speaker Signal (-) 1	I	—
2	1	YE	200	Right Front Speaker Control (+) 1	I	—

P19AL Speaker - Left Rear Door



4840334

Connector Part Information

Harness Type: Left Rear Door
OEM Connector: 148032-0005
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way F 150 MX Series (BK)

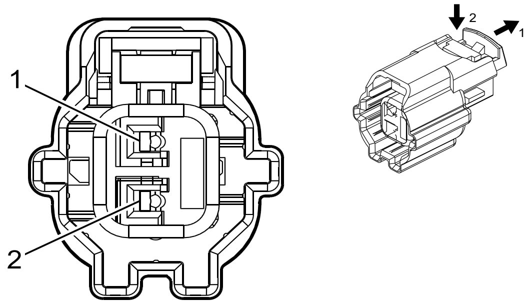
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-2A (GY)	No Tool Required	Not Required	Not Required	Not Required	Not Required

P19AL Speaker - Left Rear Door

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	1	L-GN/BK	116	Left Rear Speaker Signal (-)	I	—
2	1	L-GN	199	Left Rear Speaker Control (+)	I	—

P19AM Speaker - Right Rear Door



4840334

Connector Part Information

Harness Type: Right Rear Door
OEM Connector: 148032-0005
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way F 150 MX Series (BK)

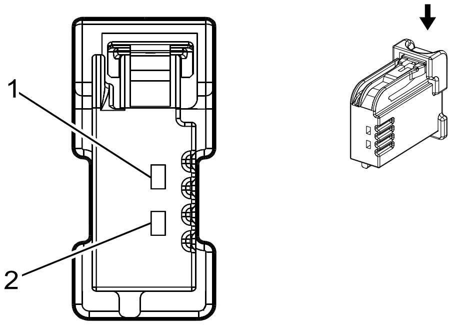
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-2A (GY)	No Tool Required	Not Required	Not Required	Not Required	Not Required

P19AM Speaker - Right Rear Door

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	1	L-BU/BK	115	Right Rear Speaker Signal (-)	I	—
2	1	WH	46	Right Rear Speaker Control (+)	I	—

P19B Speaker - Center Instrument Panel (UQA)



2179775

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 6098-5527
Service Connector: -
Description: 2-Way F 1.5 Series (GY)

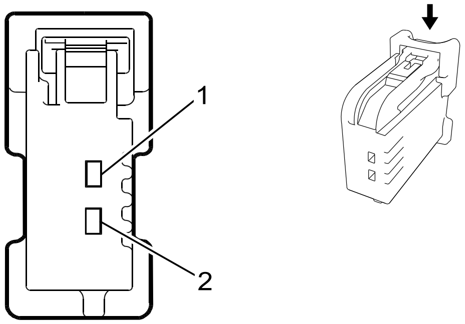
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-14 (GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

P19B Speaker - Center Instrument Panel (UQA)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.75	L-BU/YE	1960	Front Center Speaker (-) Low Reference	I	—
2	0.75	YE/WH	1860	Front Center Speaker Control (+)	I	—

P19H Speaker - Left Front Tweeter (UQ3)



2173586

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 6098-5510
Service Connector: 13584097
Description: 2-Way F 1.5 Series (BK)

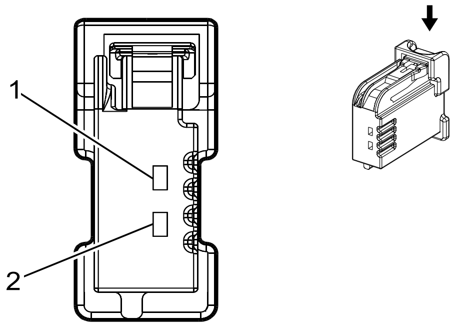
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-14 (GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

P19H Speaker - Left Front Tweeter (UQ3)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.75	BN/L-BU	118	Left Front Speaker Signal (-) 1	I	—
2	0.75	L-BU	201	Left Front Speaker Control (+) 1	I	—

P19H Speaker - Left Front Tweeter (UQA)



2179775

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 6098-5527
Service Connector: -
Description: 2-Way F 1.5 Series (GY)

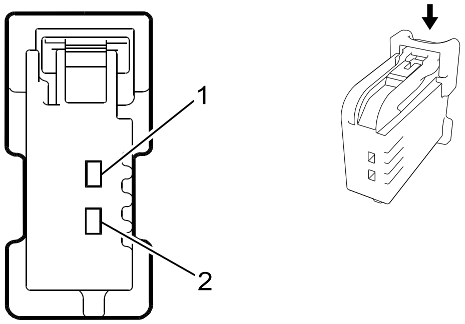
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-14 (GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

P19H Speaker - Left Front Tweeter (UQA)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.75	VT/GY	1956	Left Front Tweeter Speaker (-) Low Reference	I	—
2	0.75	YE/L-BU	1856	Left Front Tweeter Speaker Control (+)	I	—

P19V Speaker - Right Front Tweeter (UQ3)



2173586

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 6098-5510
Service Connector: 13584097
Description: 2-Way F 1.5 Series (BK)

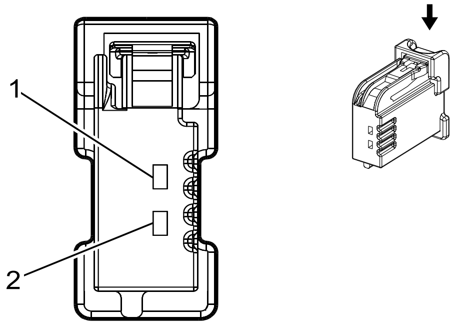
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-14 (GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

P19V Speaker - Right Front Tweeter (UQ3)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.75	YE/BK	117	Right Front Speaker Signal (-) 1	I	—
2	0.75	YE	200	Right Front Speaker Control (+) 1	I	—

P19V Speaker - Right Front Tweeter (UQA)



2179775

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 6098-5527
Service Connector: -
Description: 2-Way F 1.5 Series (GY)

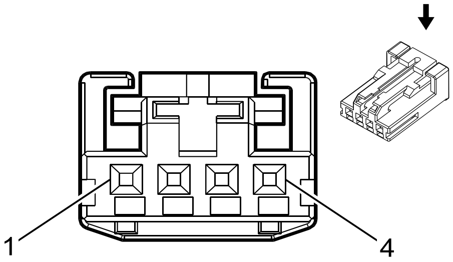
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-14 (GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

P19V Speaker - Right Front Tweeter (UQA)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.75	VT/BN	1952	Right Front Tweeter Speaker (-) Low Reference	I	—
2	0.75	BN/L-GN	1852	Right Front Tweeter Speaker Control (+)	I	—

P43 Collision Alert Indicators



2717162

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 936119-1
Service Connector: 13587297
Description: 4-Way F 0.64 Micro-Quadlock Series (BK)

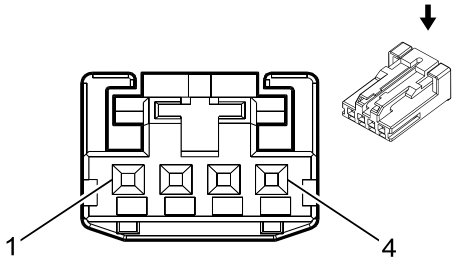
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-64B (LT BU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

P43 Collision Alert Indicators

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	VT/BK	1639	Run/Crank Ignition 1 Voltage	I	—
2	0.35	GY/YE	3885	Forward Collision Alert LED Control	I	—
3	0.35	WH/L-GN	3535	Reflected LED Display Dimming Control	I	—
4	0.35	BK/WH	2151	Signal Ground	I	—

P43 Collision Alert Indicators



2717162

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 0-936119-1
Service Connector: -
Description: 4-Way F 0.64 Micro-Quadlock Series (BK)

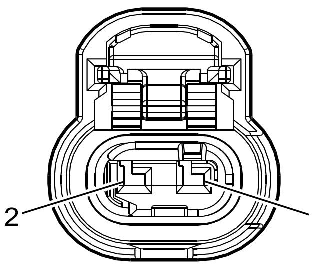
Terminal Part Information

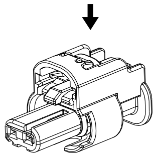
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-64B (LT BU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

P43 Collision Alert Indicators

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	VT/BK	1639	Run/Crank Ignition 1 Voltage	I	—
2	0.35	GY/YE	3885	Forward Collision Alert LED Control	I	—
3	0.35	WH/GN	3535	Reflected LED Display Dimming Control	I	—
4	0.35	BK/WH	2151	Signal Ground	I	—

Q2 A/C Compressor Clutch





Connector Part Information

Harness Type: Engine
OEM Connector: 1-2296694-1
Service Connector: -
Description: 2-Way F 1.2 MCON Series, Sealed (BK)

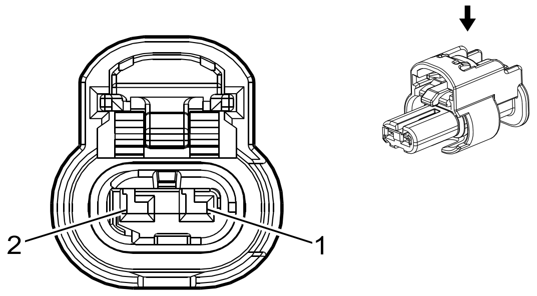
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-16 (LT GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

Q2 A/C Compressor Clutch

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.75	BK	1450	Ground	I	—
2	0.75	BN/L-GN	59	A/C Compressor Clutch Control	I	—

Q6A Camshaft Position Actuator Solenoid Valve - Bank 1 Exhaust



4335931

Connector Part Information

Harness Type: Engine
OEM Connector: 1-2296694-2
Service Connector: 19366843
Description: 2-Way F 1.2 MCON Series, Sealed (BK)

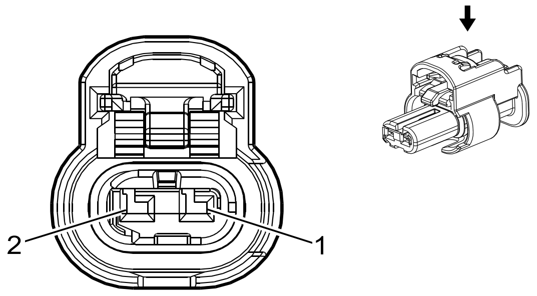
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-16 (LT GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

Q6A Camshaft Position Actuator Solenoid Valve - Bank 1 Exhaust

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	GY/L-BU	5282	Camshaft Phaser Exhaust Solenoid 1	I	—
2	0.5	BK/VT	6754	Cam Phaser X Low Reference	I	—

Q6B Camshaft Position Actuator Solenoid Valve - Bank 1 Intake



4335931

Connector Part Information

Harness Type: Engine
OEM Connector: 1-2296694-2
Service Connector: 19366843
Description: 2-Way F 1.2 MCON Series, Sealed (BK)

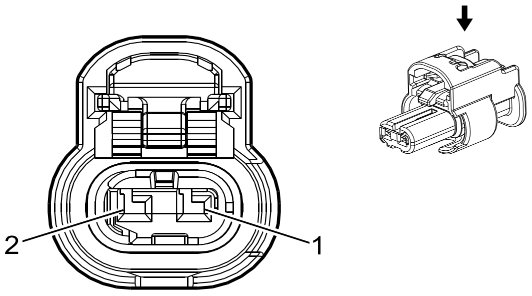
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-16 (LT GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

Q6B Camshaft Position Actuator Solenoid Valve - Bank 1 Intake

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	VT/BN	5284	Camshaft Phaser Intake Solenoid 1	I	—
2	0.5	BK/BN	6753	Cam Phaser W Low Reference	I	—

Q6C Camshaft Position Actuator Solenoid Valve - Bank 2 Exhaust



4335931

Connector Part Information

Harness Type: Engine
OEM Connector: 1-2296694-2
Service Connector: 19366843
Description: 2-Way F 1.2 MCON Series, Sealed (BK)

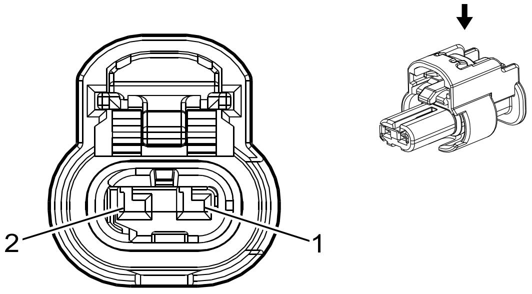
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-16 (LT GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

Q6C Camshaft Position Actuator Solenoid Valve - Bank 2 Exhaust

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	L-GN/BN	5283	Camshaft Phaser Exhaust Solenoid 2	I	—
2	0.5	BK/GY	6756	Cam Phaser Z Low Reference	I	—

Q6D Camshaft Position Actuator Solenoid Valve - Bank 2 Intake



4335931

Connector Part Information

Harness Type: Engine
OEM Connector: 1-2296694-2
Service Connector: 19366843
Description: 2-Way F 1.2 MCON Series, Sealed (BK)

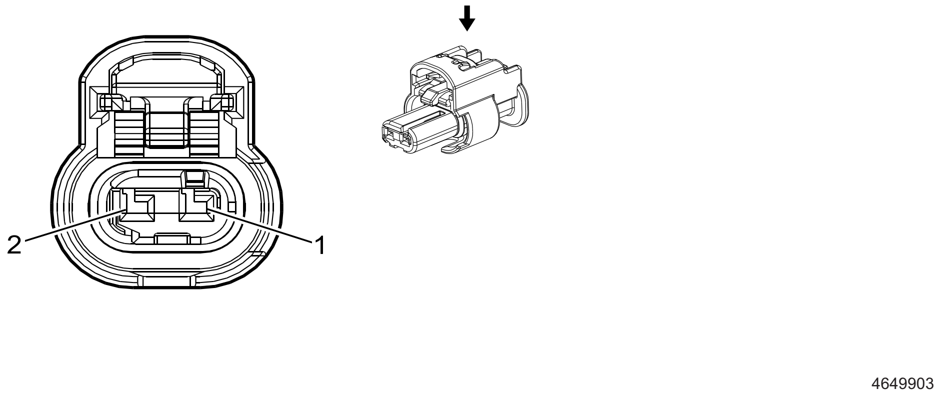
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-16 (LT GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

Q6D Camshaft Position Actuator Solenoid Valve - Bank 2 Intake

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	L-GN	5272	Camshaft Phaser Intake Solenoid 2	I	—
2	0.5	BK/L-BU	6755	Cam Phaser Y Low Reference	I	—

Q6E Camshaft Position Actuator Solenoid Valve - Exhaust



Connector Part Information

Harness Type: Engine
OEM Connector: 1-2296694-1
Service Connector: -
Description: 2-Way F 1.2 MCON Series, Sealed (BK)

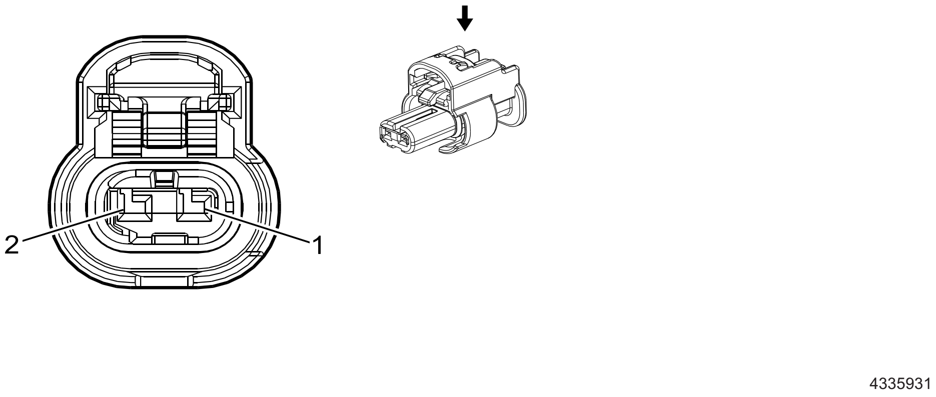
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-16 (LT GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

Q6E Camshaft Position Actuator Solenoid Valve - Exhaust

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	GY/L-BU	5282	Camshaft Phaser Exhaust Solenoid 1	I	—
2	0.5	BK/VT	6754	Cam Phaser X Low Reference	I	—

Q6F Camshaft Position Actuator Solenoid Valve - Intake



Connector Part Information

Harness Type: Engine
OEM Connector: 1-2296694-2
Service Connector: 19366843
Description: 2-Way F 1.2 MCON Series, Sealed (BK)

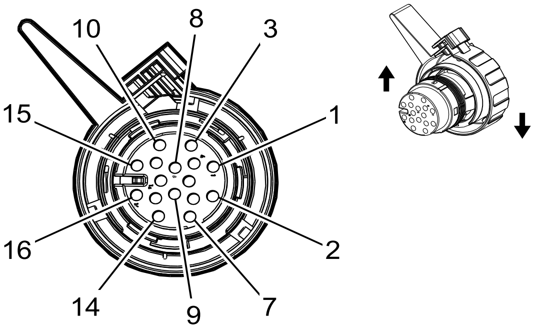
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-16 (LT GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

Q6F Camshaft Position Actuator Solenoid Valve - Intake

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	VT/BN	5284	Camshaft Phaser Intake Solenoid 1	I	—
2	0.5	BK/BN	6753	Cam Phaser W Low Reference	I	—

Q8 Control Solenoid Valve Assembly X1



Connector Part Information

Harness Type: Engine
OEM Connector: 9430734
Service Connector: -
Description: 16-Way F 1.5 Series, Sealed (BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13578920	J-35616-66 (YE)	J-38125-28	2 21 24 47220 0	Yazaki 12	E	1

Q8 Control Solenoid Valve Assembly X1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1 - 2	—	—	—	Not Occupied	—	—
3	0.5	WH/GY	1786	Transmission Park/Neutral Signal 1	I	—
4	0.75	RD/L-GN	1840	Battery Positive Voltage	I	—
5	0.75	BK/WH	1451	Signal Ground	I	—
6 - 8	—	—	—	Not Occupied	—	—
9	0.5	VT/YE	5985	Accessory Wakeup Serial Data	I	—
10	0.5	L-BU	2500	High Speed GMLAN Serial Data (+) 1	I	—
11	0.5	WH	2501	High Speed GMLAN Serial Data (-) 1	I	—
12	0.5	VT/BK	2139	Run/Crank Ignition 1 Voltage	I	—
13	0.5	WH	2501	High Speed GMLAN Serial Data (-) 1	I	—
14	0.5	L-BU	2500	High Speed GMLAN Serial Data (+) 1	I	—
15 - 16	—	—	—	Not Occupied	—	—

Q8 Control Solenoid Valve Assembly X2 (MYB)

—

Connector Part Information

Harness Type: Transmission
OEM Connector: 89046635
Service Connector: Service by Harness - See Part Catalog
Description: 6-Way

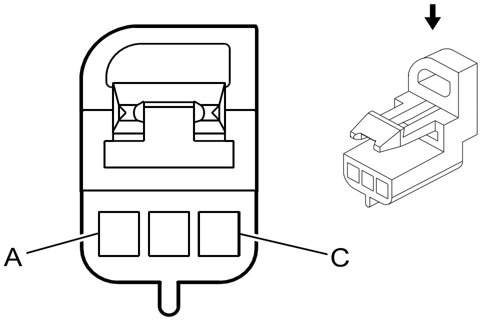
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	Not Available	No Tool Required	Not Required	Not Required	Not Required	Not Required

Q8 Control Solenoid Valve Assembly X2 (MYB)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.35	GY	—	Ground	I	—
B	0.35	BK	—	Transmission Range Switch Signal P	I	—
C	0.35	YE	—	Transmission Range Switch Signal C	I	—
D	0.35	RD	—	Transmission Range Switch Signal B	I	—
E	0.35	GN	—	Transmission Range Switch Signal A	I	—
F	0.35	WH	—	Park/Neutral Switch Signal	I	—

Q8 Control Solenoid Valve Assembly X3 (MYB)



2334125

Connector Part Information

Harness Type: Transmission
OEM Connector: 13539487
Service Connector: Service by Harness - See Part Catalog
Description: 3-Way F 150 Metri-Pack Series (BK)

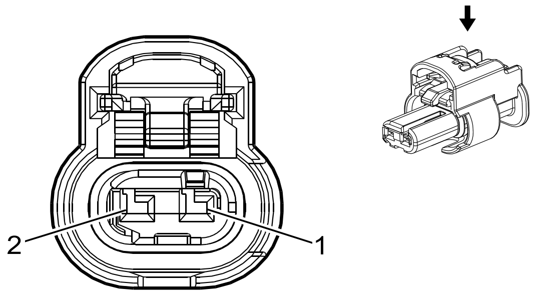
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	No Tool Required	No Tool Required	Not Required	Not Required	Not Required	Not Required

Q8 Control Solenoid Valve Assembly X3 (MYB)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.35	GN	—	Input Speed Sensor (ISS) Signal	I	—
B	0.35	RD	—	ISS/OSS Supply Voltage	I	—
C	0.35	BK	—	Output Speed Sensor (OSS) Signal	I	—

Q9F Differential Lock Actuator - Front



Connector Part Information

Harness Type: Power Steering
OEM Connector: 1-2296694-1
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way F 1.2 MCON Series, Sealed (BK)

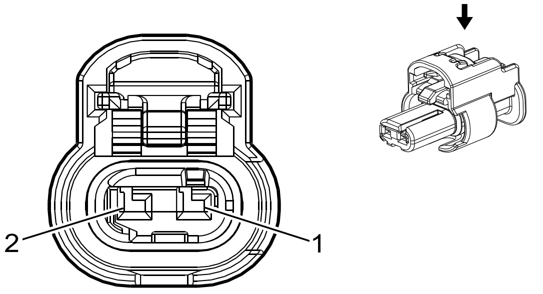
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-16 (LT GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

Q9F Differential Lock Actuator - Front

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	1	VT/WH	7256	Front Differential Lock Actuator Supply Voltage	I	—
2	1	WH/BK	7254	Front Differential Lock Actuator Low Control	I	—

Q9R Differential Lock Actuator - Rear



4036662

Connector Part Information

Harness Type: Chassis
OEM Connector: 1-2203312-1
Service Connector: 19330898
Description: 2-Way F 1.2 MCON Series, Sealed (BK)

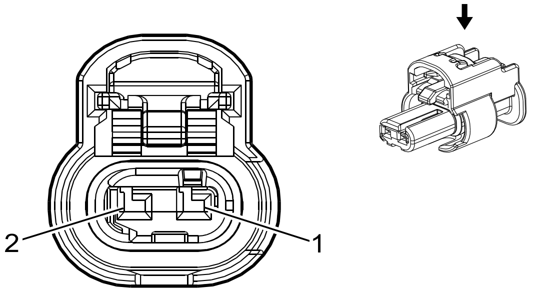
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-16 (LT GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

Q9R Differential Lock Actuator - Rear

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	1	VT/BN	7258	Rear Differential Lock Actuator Supply Voltage	I	—
2	1	GY/BK	7253	Rear Differential Lock Actuator Low Control	I	—

Q9R Differential Lock Actuator - Rear



4649903

Connector Part Information

Harness Type: Chassis
OEM Connector: 1-2296694-1
Service Connector: -
Description: 2-Way F 1.2 MCON Series, Sealed (BK)

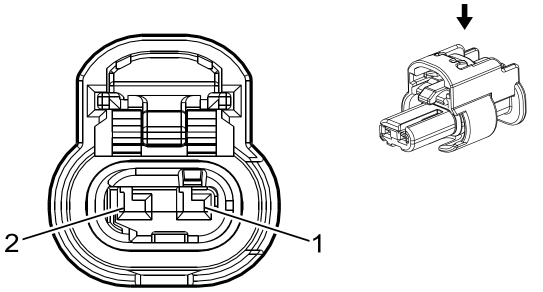
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-16 (LT GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

Q9R Differential Lock Actuator - Rear

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	1	VT/BN	7258	Rear Differential Lock Actuator Supply Voltage	I	—
2	1	GY/BK	7253	Rear Differential Lock Actuator Low Control	I	—

Q12 Evaporative Emission Purge Solenoid Valve



4649903

Connector Part Information

Harness Type: Engine
OEM Connector: 1-2296694-1
Service Connector: -
Description: 2-Way F 1.2 MCON Series, Sealed (BK)

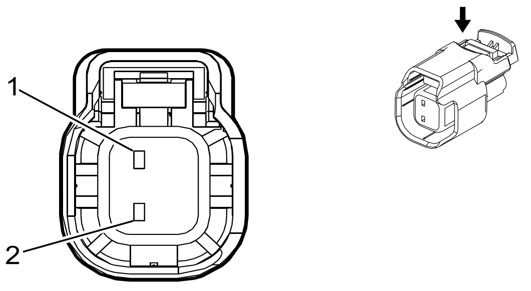
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-16 (LT GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

Q12 Evaporative Emission Purge Solenoid Valve

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	VT/L-BU	5293	Powertrain Main Relay Fused Supply 4	I	—
2	0.5	L-GN/L-BU	428	EVAP Canister Purge Solenoid Control	I	—

Q13 Evaporative Emission Vent Solenoid Valve



3028817

Connector Part Information

Harness Type: Chassis
OEM Connector: 34062-4009
Service Connector: 19352404
Description: 2-Way F 1.5 Series, Sealed (BK)

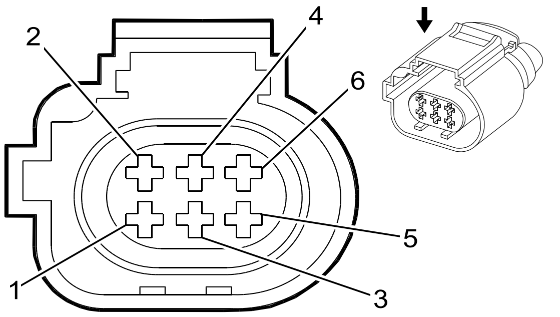
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-14 (GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

Q13 Evaporative Emission Vent Solenoid Valve

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	WH	1310	EVAP Canister Vent Solenoid Control	I	—
2	0.5	RD/L-GN	2440	Battery Positive Voltage	I	—

Q14 Exhaust Gas Recirculation Valve



2216905

Connector Part Information

Harness Type: Engine
OEM Connector: 284716-3
Service Connector: 13586128
Description: 6-Way F 1.6 Micro-Timer Series, Sealed (BN)

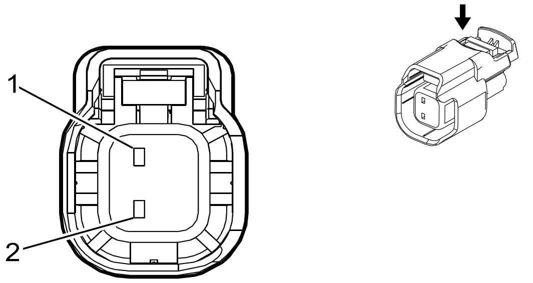
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-14 (GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

Q14 Exhaust Gas Recirculation Valve

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	WH/VT	5764	Exhaust Gas Recirculation Valve Motor High Signal	I	—
2	0.5	BN/WH	5763	Exhaust Gas Recirculation Valve Sensor Signal	I	—
3	—	—	—	Not Occupied	—	—
4	0.5	BK/BN	2753	Exhaust Gas Recirculation Sensor Low Reference	I	—
5	0.5	VT/BK	5746	Exhaust Gas Recirculation Valve Motor Low Signal	I	—
6	0.5	L-BU/RD	5047	Exhaust Gas Recirculation 5V Reference 1	I	—

Q17A Fuel Injector 1 (LCV)



3028817

Connector Part Information

Harness Type: Fuel Rail
OEM Connector: 13503508
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way F 1.5 Series, Sealed (BK)

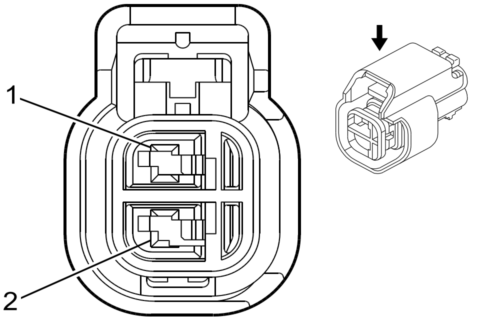
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	No Tool Required	No Tool Required	Not Required	Not Required	Not Required	Not Required

Q17A Fuel Injector 1 (LCV)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.75	BN	4801	Direct Fuel Injector (DFI) High Voltage Control Cylinder 1	I	—
2	0.75	BN/WH	4901	Direct Fuel Injector (DFI) High Voltage Supply Cylinder 1	I	—

Q17A Fuel Injector 1 (LGZ)



1659331

Connector Part Information

Harness Type: Bank 1 Fuel Rail
OEM Connector: E-2157
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way F 1.5 Series, Sealed (BK)

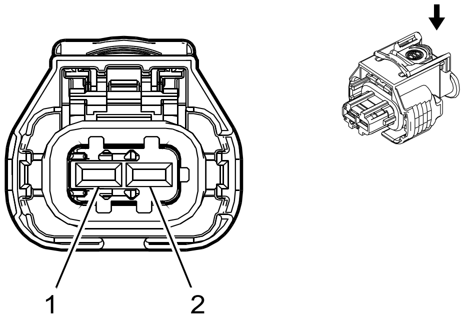
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	No Tool Required	No Tool Required	Not Required	Not Required	Not Required	Not Required

Q17A Fuel Injector 1 (LGZ)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	BN	4801	Direct Fuel Injector (DFI) High Voltage Control Cylinder 1	I	—
2	0.5	BN/WH	4901	Direct Fuel Injector (DFI) High Voltage Supply Cylinder 1	I	—

Q17A Fuel Injector 1 (LWN)



2845578

Connector Part Information

Harness Type: Engine
OEM Connector: 1928405715
Service Connector: 19299882
Description: 2-Way F 2.8 Series, Sealed (BK)

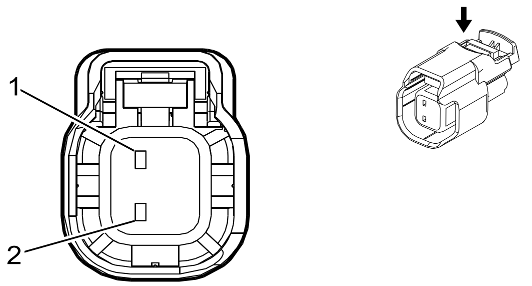
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-35 (VT)	No Tool Required	Not Required	Not Required	Not Required	Not Required

Q17A Fuel Injector 1 (LWN)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	1.5	BN/WH	4901	Direct Fuel Injector (DFI) High Voltage Supply Cylinder 1	I	—
2	1.5	BN	4801	Direct Fuel Injector (DFI) High Voltage Control Cylinder 1	I	—

Q17B Fuel Injector 2 (LCV)



3028817

Connector Part Information

Harness Type: Fuel Rail
OEM Connector: 13503508
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way F 1.5 Series, Sealed (BK)

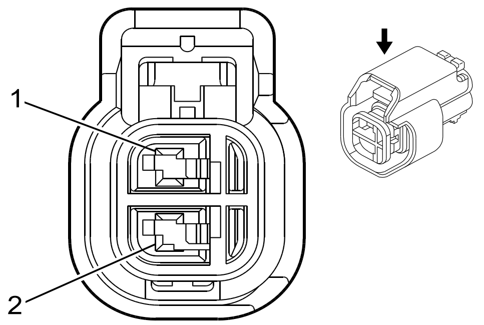
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	No Tool Required	No Tool Required	Not Required	Not Required	Not Required	Not Required

Q17B Fuel Injector 2 (LCV)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.75	BU	4802	Direct Fuel Injector (DFI) High Voltage Control Cylinder 2	I	—
2	0.75	BU/GY	4902	Direct Fuel Injector (DFI) High Voltage Supply Cylinder 2	I	—

Q17B Fuel Injector 2 (LGZ)



1659331

Connector Part Information

Harness Type: Bank 2 Fuel Rail
OEM Connector: E-2157
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way F 1.5 Series, Sealed (BK)

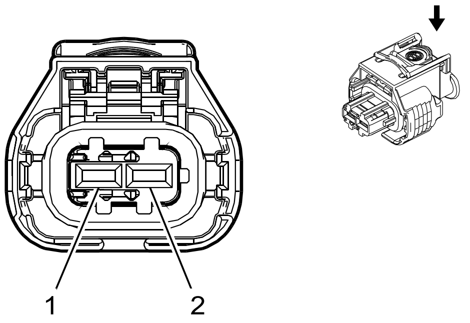
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	No Tool Required	No Tool Required	Not Required	Not Required	Not Required	Not Required

Q17B Fuel Injector 2 (LGZ)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	BU	4802	Direct Fuel Injector (DFI) High Voltage Control Cylinder 2	I	—
2	0.5	BU/GY	4902	Direct Fuel Injector (DFI) High Voltage Supply Cylinder 2	I	—

Q17B Fuel Injector 2 (LWN)



2845578

Connector Part Information

Harness Type: Engine
OEM Connector: 1928405715
Service Connector: 19299882
Description: 2-Way F 2.8 Series, Sealed (BK)

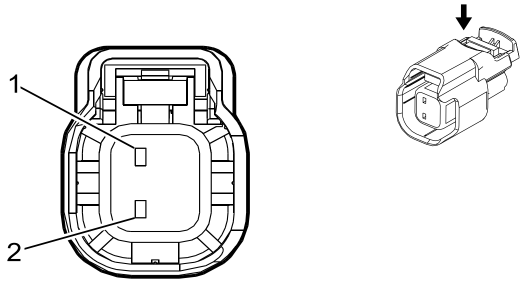
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-35 (VT)	No Tool Required	Not Required	Not Required	Not Required	Not Required

Q17B Fuel Injector 2 (LWN)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	1.5	L-BU/GY	4902	Direct Fuel Injector (DFI) High Voltage Supply Cylinder 2	I	—
2	1.5	L-BU	4802	Direct Fuel Injector (DFI) High Voltage Control Cylinder 2	I	—

Q17C Fuel Injector 3 (LCV)



3028817

Connector Part Information

Harness Type: Fuel Rail
OEM Connector: 13503508
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way F 1.5 Series, Sealed (BK)

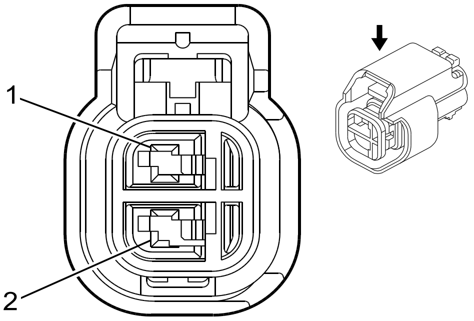
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	No Tool Required	No Tool Required	Not Required	Not Required	Not Required	Not Required

Q17C Fuel Injector 3 (LCV)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.75	GN	4803	Direct Fuel Injector (DFI) High Voltage Control Cylinder 3	I	—
2	0.75	GN/GY	4903	Direct Fuel Injector (DFI) High Voltage Supply Cylinder 3	I	—

Q17C Fuel Injector 3 (LGZ)



1659331

Connector Part Information

Harness Type: Bank 1 Fuel Rail
OEM Connector: E-2157
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way F 1.5 Series, Sealed (BK)

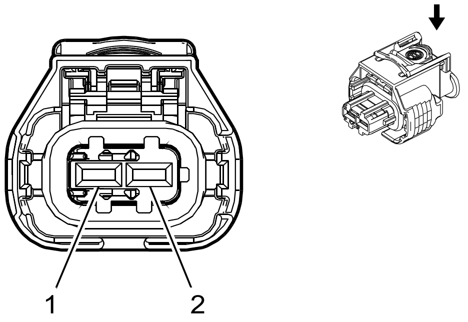
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	No Tool Required	No Tool Required	Not Required	Not Required	Not Required	Not Required

Q17C Fuel Injector 3 (LGZ)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	GN	4803	Direct Fuel Injector (DFI) High Voltage Control Cylinder 3	I	—
2	0.5	GN/GY	4903	Direct Fuel Injector (DFI) High Voltage Supply Cylinder 3	I	—

Q17C Fuel Injector 3 (LWN)



2845578

Connector Part Information

Harness Type: Engine
OEM Connector: 1928405715
Service Connector: 19299882
Description: 2-Way F 2.8 Series, Sealed (BK)

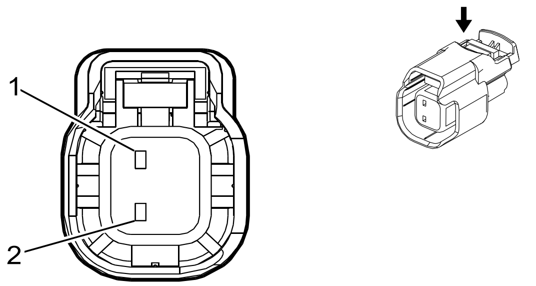
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-35 (VT)	No Tool Required	Not Required	Not Required	Not Required	Not Required

Q17C Fuel Injector 3 (LWN)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	1.5	L-GN/GY	4903	Direct Fuel Injector (DFI) High Voltage Supply Cylinder 3	I	—
2	1.5	L-GN	4803	Direct Fuel Injector (DFI) High Voltage Control Cylinder 3	I	—

Q17D Fuel Injector 4 (LCV)



3028817

Connector Part Information

Harness Type: Fuel Rail
OEM Connector: 13503508
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way F 1.5 Series, Sealed (BK)

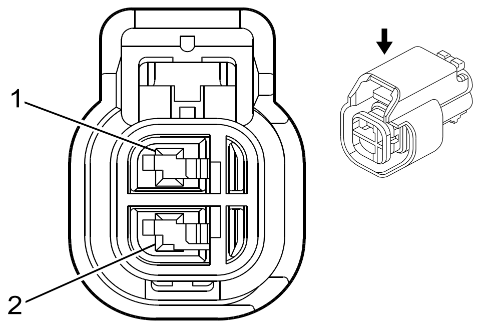
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	No Tool Required	No Tool Required	Not Required	Not Required	Not Required	Not Required

Q17D Fuel Injector 4 (LCV)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.75	GY/BU	4804	Direct Fuel Injector (DFI) High Voltage Control Cylinder 4	I	—
2	0.75	BU/WH	4904	Direct Fuel Injector (DFI) High Voltage Supply Cylinder 4	I	—

Q17D Fuel Injector 4 (LGZ)



1659331

Connector Part Information

Harness Type: Bank 2 Fuel Rail
OEM Connector: E-2157
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way F 1.5 Series, Sealed (BK)

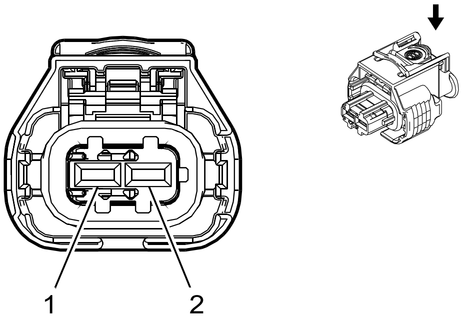
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	No Tool Required	No Tool Required	Not Required	Not Required	Not Required	Not Required

Q17D Fuel Injector 4 (LGZ)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	GY/BU	4804	Direct Fuel Injector (DFI) High Voltage Control Cylinder 4	I	—
2	0.5	BU/WH	4904	Direct Fuel Injector (DFI) High Voltage Supply Cylinder 4	I	—

Q17D Fuel Injector 4 (LWN)



2845578

Connector Part Information

Harness Type: Engine
OEM Connector: 1928405715
Service Connector: 19299882
Description: 2-Way F 2.8 Series, Sealed (BK)

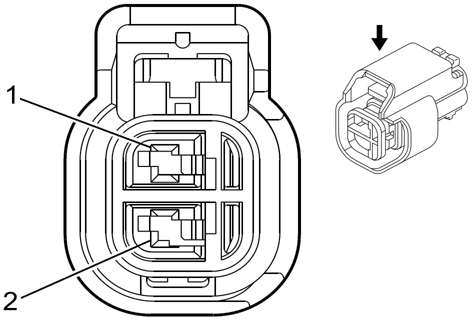
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-35 (VT)	No Tool Required	Not Required	Not Required	Not Required	Not Required

Q17D Fuel Injector 4 (LWN)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	1.5	L-BU/WH	4904	Direct Fuel Injector (DFI) High Voltage Supply Cylinder 4	I	—
2	1.5	GY/L-BU	4804	Direct Fuel Injector (DFI) High Voltage Control Cylinder 4	I	—

Q17E Fuel Injector 5 (LGZ)



1659331

Connector Part Information

Harness Type: Bank 1 Fuel Rail
OEM Connector: E-2157
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way F 1.5 Series, Sealed (BK)

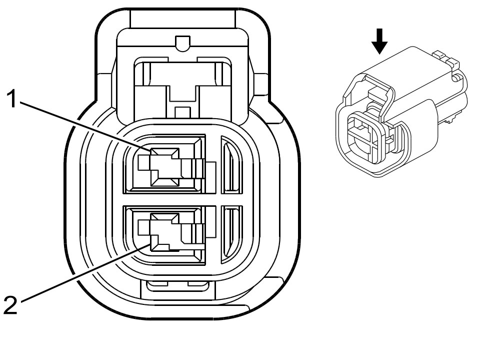
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	Not Available	No Tool Required	Not Required	Not Required	Not Required	Not Required

Q17E Fuel Injector 5 (LGZ)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	WH/GN	4805	Direct Fuel Injector (DFI) High Voltage Control Cylinder 5	I	—
2	0.5	GN/WH	4905	Direct Fuel Injector (DFI) High Voltage Supply Cylinder 5	I	—

Q17F Fuel Injector 6 (LGZ)



1659331

Connector Part Information

Harness Type: Bank 2 Fuel Rail
OEM Connector: E-2157
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way F 1.5 Series, Sealed (BK)

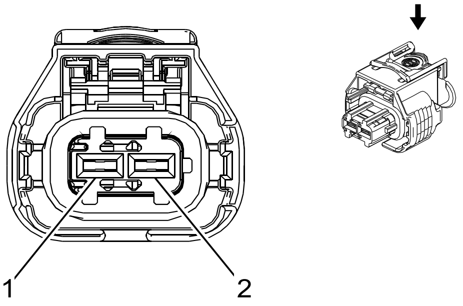
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	Not Available	No Tool Required	Not Required	Not Required	Not Required	Not Required

Q17F Fuel Injector 6 (LGZ)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	VT/GN	4806	Direct Fuel Injector (DFI) High Voltage Control Cylinder 6	I	—
2	0.5	VT/GY	4906	Direct Fuel Injector (DFI) High Voltage Supply Cylinder 6	I	—

Q18A Fuel Pressure Regulator 1



2577394

Connector Part Information

Harness Type: Engine
OEM Connector: 1928405521
Service Connector: 13384371
Description: 2-Way F 2.8 Series, Sealed (BK)

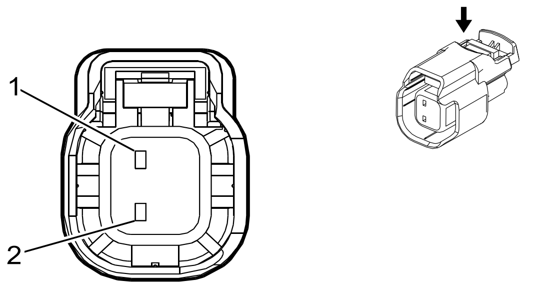
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-35 (VT)	No Tool Required	Not Required	Not Required	Not Required	Not Required

Q18A Fuel Pressure Regulator 1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	YE	2928	Fuel Metering Valve High Control	I	—
2	0.5	BN/BK	2929	Fuel Metering Valve Low Control	I	—

Q18B Fuel Pressure Regulator 2



3028817

Connector Part Information

Harness Type: Engine
OEM Connector: 34062-4009
Service Connector: 19352404
Description: 2-Way F 1.5 Series, Sealed (BK)

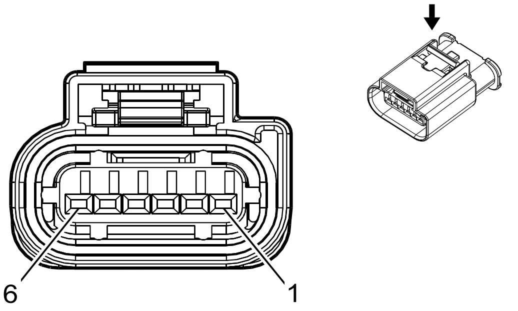
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-2A (GY)	No Tool Required	Not Required	Not Required	Not Required	Not Required

Q18B Fuel Pressure Regulator 2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	L-BU/WH	2530	Fuel Rail Pressure Solenoid Control	I	—
2	0.5	BK/YE	2834	Fuel Rail Pressure Solenoid Low Reference	I	—

Q20 Intake Air Flow Valve



3747579

Connector Part Information

Harness Type: Engine
OEM Connector: 2272975-5
Service Connector: 19352911
Description: 6-Way F 1.2 MCON Series, Sealed (BK)

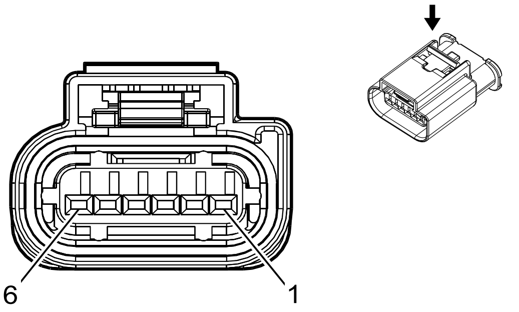
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-16 (LT GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

Q20 Intake Air Flow Valve

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	YE	581	Throttle Actuator Control Open	I	—
2	0.5	BN/WH	582	Throttle Actuator Control Close	I	—
3	0.5	L-BU/WH	3630	Throttle Position Sensor (SENT1) Signal	I	—
4	0.5	BK/BN	2752	Throttle Position Sensor Low Reference	I	—
5	0.5	BN/RD	2701	Throttle Position Sensor 5V Reference	I	—
6	—	—	—	Not Occupied	—	—

Q38 Throttle Body



3747579

Connector Part Information

Harness Type: Engine
OEM Connector: 2272975-5
Service Connector: 19352911
Description: 6-Way F 1.2 MCON Series, Sealed (BK)

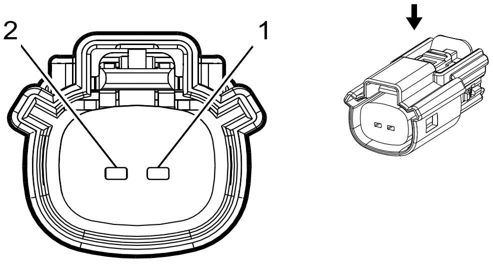
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-16 (LT GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

Q38 Throttle Body

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	YE	581	Throttle Actuator Control Open	I	—
2	0.5	BN/WH	582	Throttle Actuator Control Close	I	—
3	0.5	L-BU/WH	3630	Throttle Position Sensor (SENT1) Signal	I	—
4	0.5	BK/BN	2752	Throttle Position Sensor Low Reference	I	—
5	0.5	BN/RD	2701	Throttle Position Sensor 5V Reference	I	—
6	—	—	—	Not Occupied	—	—

Q44 Engine Oil Pressure Control Solenoid Valve (LCV)



2474713

Connector Part Information

Harness Type: Engine
OEM Connector: 33471-0206
Service Connector: 13577534
Description: 2-Way F 1.5 Series, Sealed (BK)

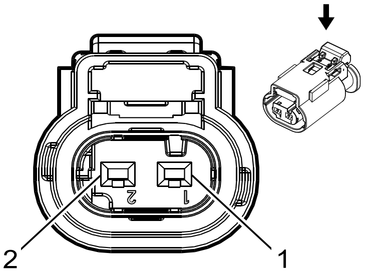
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-2A (GY)	No Tool Required	Not Required	Not Required	Not Required	Not Required

Q44 Engine Oil Pressure Control Solenoid Valve (LCV)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	VT/L-BU	5293	Powertrain Main Relay Fused Supply 4	I	—
2	0.5	L-BU	179	Oil Pump Command Signal	I	—

Q44 Engine Oil Pressure Control Solenoid Valve (LGZ)



2717066

Connector Part Information

Harness Type: Engine
OEM Connector: 10010337
Service Connector: 13587326
Description: 2-Way F 1.2 Multilock Series, Sealed (BK)

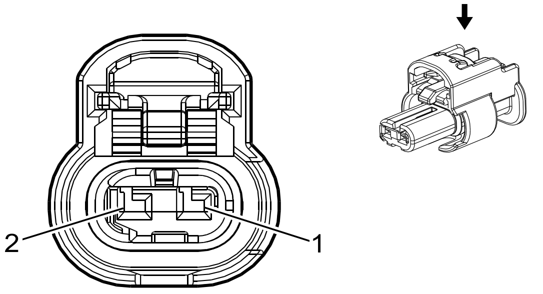
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-16 (LT GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

Q44 Engine Oil Pressure Control Solenoid Valve (LGZ)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	VT/L-BU	5293	Powertrain Main Relay Fused Supply 4	I	—
2	0.5	L-BU	179	Oil Pump Command Signal	I	—

Q46 A/C Compressor Solenoid Valve



4335931

Connector Part Information

Harness Type: Engine
OEM Connector: 1-2296694-2
Service Connector: 19366843
Description: 2-Way F 1.2 MCON Series, Sealed (BK)

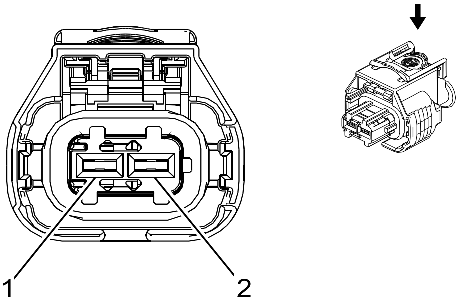
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-16 (LT GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

Q46 A/C Compressor Solenoid Valve

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.75	L-BU/YE	7574	Electric Variable Displacement Control	I	—
2	0.75	L-BU/BN	7573	Electric Variable Displacement Supply	I	—

Q47 Exhaust Gas Recirculation Cooler Bypass Solenoid Valve



2577394

Connector Part Information

Harness Type: Engine
OEM Connector: 1928405521
Service Connector: 13384371
Description: 2-Way F 2.8 Series, Sealed (BK)

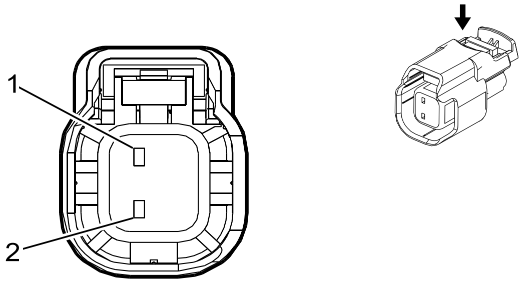
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-35 (VT)	No Tool Required	Not Required	Not Required	Not Required	Not Required

Q47 Exhaust Gas Recirculation Cooler Bypass Solenoid Valve

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	YE/L-BU	3231	Exhaust Gas Recirculation Cooler Bypass Solenoid Control	I	—
2	0.5	GY/L-BU	3230	Exhaust Gas Recirculation Cooler Bypass Solenoid Control	I	—

Q61 Reductant Injector



Connector Part Information

Harness Type: Engine
OEM Connector: 34062-4009
Service Connector: 19352404
Description: 2-Way F 1.5 Series, Sealed (BK)

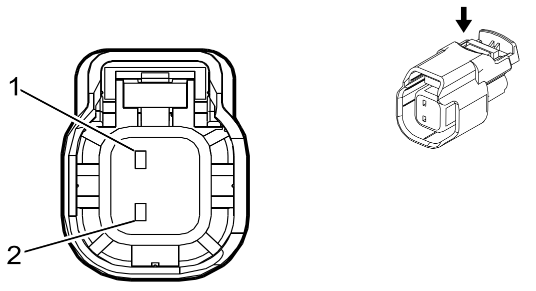
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-2A (GY)	No Tool Required	Not Required	Not Required	Not Required	Not Required

Q61 Reductant Injector

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	BN/WH	3100	DEF Dosing Valve Low Control	I	—
2	0.5	BN	3099	DEF Dosing Valve High Control	I	—

Q67 Exhaust Aftertreatment Fuel Injector



3028817

Connector Part Information

Harness Type: Chassis
OEM Connector: 34062-0025
Service Connector: 13580230
Description: 2-Way F 1.5 Series, Sealed (BK)

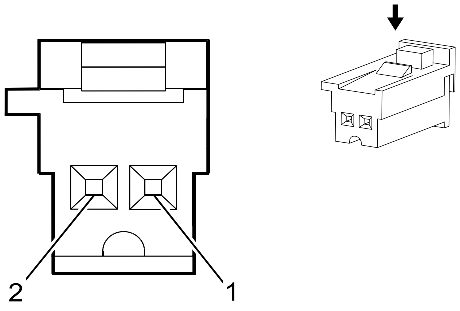
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-2A (GY)	No Tool Required	Not Required	Not Required	Not Required	Not Required

Q67 Exhaust Aftertreatment Fuel Injector

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	VT/BN	2927	Hydrocarbon Injector Low Control	I	—
2	0.5	BN/L-BU	2926	Hydrocarbon Injector High Control	I	—

Q77A Transmission Control Solenoid Valve 1 (M5T)



4051391

Connector Part Information

Harness Type: Transmission Control
OEM Connector: 13956948
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way F 0.64 MTS Series (VT)

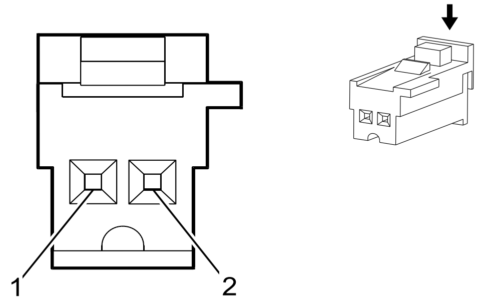
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-64B (LT BU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

Q77A Transmission Control Solenoid Valve 1 (M5T)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	BN	6400	Clutch A Control	I	—
2	0.5	GY/BN	6388	Transmission High Side Driver 2 Signal	I	—

Q77B Transmission Control Solenoid Valve 2 (M5T)



4008644

Connector Part Information

Harness Type: Transmission Control
OEM Connector: 13941672
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way F 0.64 MTS Series (GY)

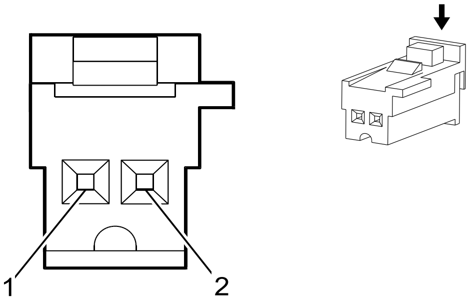
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-64B (LT BU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

Q77B Transmission Control Solenoid Valve 2 (M5T)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	BU	6401	Clutch B Control	I	—
2	0.5	GY/BN	6388	Transmission High Side Driver 2 Signal	I	—

Q77C Transmission Control Solenoid Valve 3 (M5T)



4008644

Connector Part Information

Harness Type: Transmission Control
OEM Connector: 13941672
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way F 0.64 MTS Series (GY)

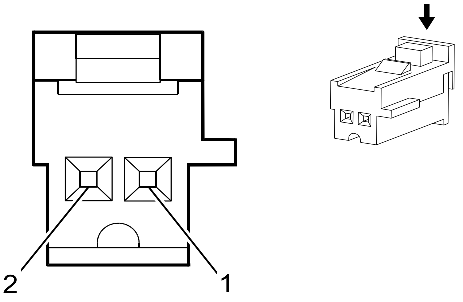
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-64B (LT BU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

Q77C Transmission Control Solenoid Valve 3 (M5T)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	GY	6402	Clutch C Control	I	—
2	0.5	GY/BN	6388	Transmission High Side Driver 2 Signal	I	—

Q77D Transmission Control Solenoid Valve 4 (M5T)



Connector Part Information

Harness Type: Transmission Control
OEM Connector: 13947283
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way F 0.64 MTS Series (NA)

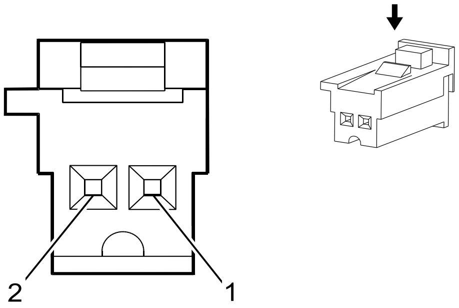
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-64B (LT BU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

Q77D Transmission Control Solenoid Valve 4 (M5T)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	WH	4508	Transmission Clutch G Control	I	—
2	0.5	GN/GY	6387	Transmission High Side Driver 1 Signal Driver	I	—

Q77E Transmission Control Solenoid Valve 5 (M5T)



4051391

Connector Part Information

Harness Type: Transmission Control
OEM Connector: 13956948
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way F 0.64 MTS Series (VT)

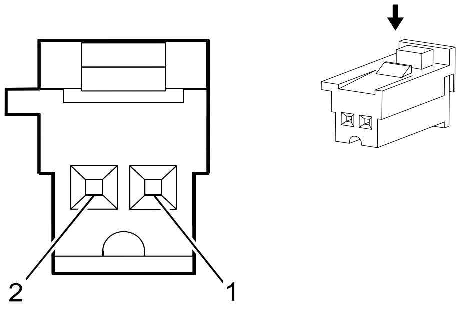
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-64B (LT BU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

Q77E Transmission Control Solenoid Valve 5 (M5T)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	WH/BU	4507	Transmission Clutch H Control	I	—
2	0.5	GN/GY	6387	Transmission High Side Driver 1 Signal Driver	I	—

Q77F Transmission Control Solenoid Valve 6 (M5T)



4051391

Connector Part Information

Harness Type: Transmission Control
OEM Connector: 13956948
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way F 0.64 MTS Series (VT)

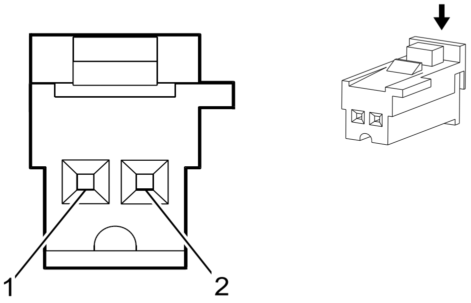
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-64B (LT BU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

Q77F Transmission Control Solenoid Valve 6 (M5T)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	GY/GN	6403	Clutch D Control	I	—
2	0.5	GY/BN	6388	Transmission High Side Driver 2 Signal	I	—

Q77G Transmission Control Solenoid Valve 7 (M5T)



4008644

Connector Part Information

Harness Type: Transmission Control
OEM Connector: 13941672
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way F 0.64 MTS Series (GY)

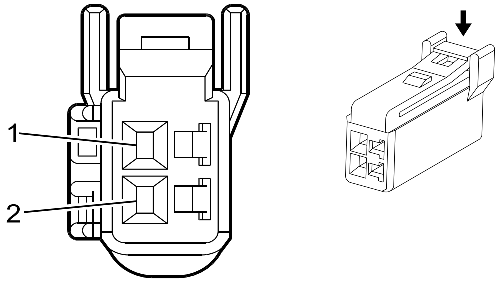
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-64B (LT BU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

Q77G Transmission Control Solenoid Valve 7 (M5T)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	YE/BN	6404	Clutch E Control	I	—
2	0.5	GY/BN	6388	Transmission High Side Driver 2 Signal	I	—

Q77H Transmission Control Solenoid Valve 8 (M5T)



4051682

Connector Part Information

Harness Type: Transmission Control
OEM Connector: 7287-0122
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way F 040 III Series (NA)

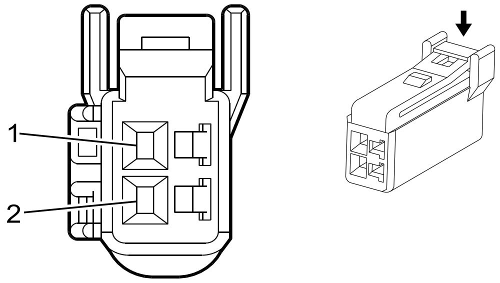
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-16 (LT GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

Q77H Transmission Control Solenoid Valve 8 (M5T)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	GN/GY	6387	Transmission High Side Driver 1 Signal Driver	I	—
2	0.5	GN/WH	6380	TCC On/Off Solenoid A Control	I	—

Q77J Transmission Control Solenoid Valve 9 (M5T)



4051682

Connector Part Information

Harness Type: Transmission Control
OEM Connector: 7287-0122
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way F 040 III Series (NA)

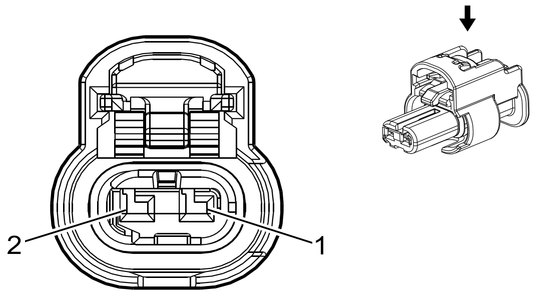
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-16 (LT GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

Q77J Transmission Control Solenoid Valve 9 (M5T)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	GY/BN	6388	Transmission High Side Driver 2 Signal	I	—
2	0.5	YE/BN	6210	TCC On/Off Solenoid B Control	I	—

Q83A Valve Lifter Oil Solenoid Valve - Bank 1



4335931

Connector Part Information

Harness Type: Engine
OEM Connector: 1-2296694-2
Service Connector: 19366843
Description: 2-Way F 1.2 MCON Series, Sealed (BK)

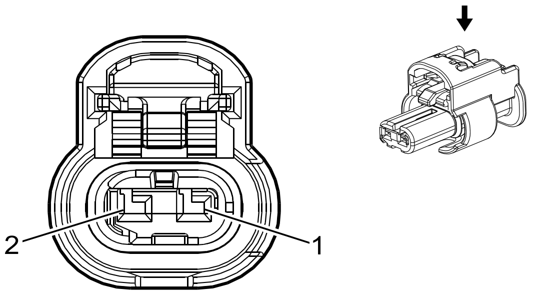
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-16 (LT GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

Q83A Valve Lifter Oil Solenoid Valve - Bank 1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	VT/L-BU	5293	Powertrain Main Relay Fused Supply 4	I	—
2	0.5	L-BU	5491	Cylinder Shutoff Solenoid Control 1	I	—

Q83B Valve Lifter Oil Solenoid Valve - Bank 2



4335931

Connector Part Information

Harness Type: Engine
OEM Connector: 1-2296694-2
Service Connector: 19366843
Description: 2-Way F 1.2 MCON Series, Sealed (BK)

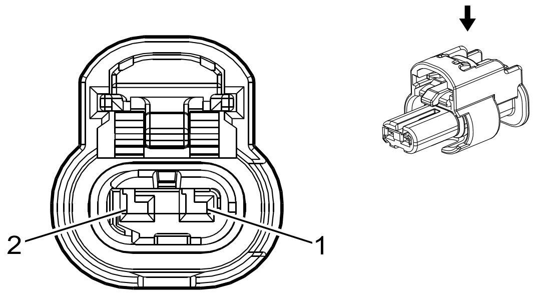
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-16 (LT GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

Q83B Valve Lifter Oil Solenoid Valve - Bank 2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	VT/L-BU	5293	Powertrain Main Relay Fused Supply 4	I	—
2	0.5	L-GN	5492	Cylinder Shutoff Solenoid Control 2	I	—

Q84A Camshaft Position Actuator Park Lock Solenoid Valve - Bank 1 Intake



4335931

Connector Part Information

Harness Type: Engine
OEM Connector: 1-2296694-2
Service Connector: 19366843
Description: 2-Way F 1.2 MCON Series, Sealed (BK)

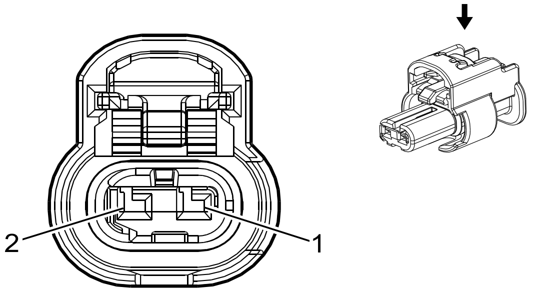
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-16 (LT GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

Q84A Camshaft Position Actuator Park Lock Solenoid Valve - Bank 1 Intake

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	VT/L-BU	5293	Powertrain Main Relay Fused Supply 4	I	—
2	0.5	YE/L-GN	4321	Park Phaser Lock Control	I	—

Q84B Camshaft Position Actuator Park Lock Solenoid Valve - Bank 2 Intake



4335931

Connector Part Information

Harness Type: Engine
OEM Connector: 1-2296694-2
Service Connector: 19366843
Description: 2-Way F 1.2 MCON Series, Sealed (BK)

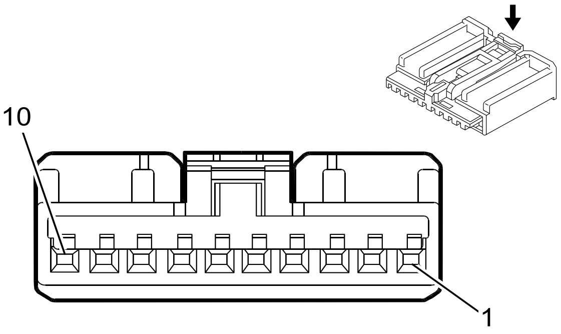
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-16 (LT GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

Q84B Camshaft Position Actuator Park Lock Solenoid Valve - Bank 2 Intake

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	VT/L-BU	5293	Powertrain Main Relay Fused Supply 4	I	—
2	0.5	GY/L-GN	908	—	I	—

Q85 Cooling Fan Clutch (LWN)



1862241

Connector Part Information

- Harness Type: Steering Wheel
- OEM Connector: 15269795
- Service Connector: Service by Harness - See Part Catalog
- Description: 10-Way F 0.64 Kaizen Series (BK)

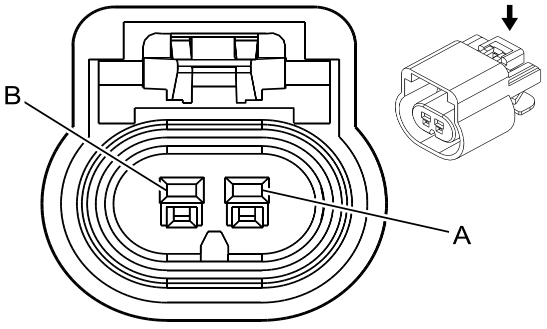
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	Not Available	No Tool Required	Not Required	Not Required	Not Required	Not Required

Q85 Cooling Fan Clutch (LWN)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	RD/YE	3040	Battery Positive Voltage	I	—
2	0.5	GN/BK	3894	Local Interconnect Network Serial Data Bus 12	I	—
3	—	—	—	Not Occupied	—	—
4	0.35	GY/OG	5737	Adaptive Cruise Control Gap Up/Down Switch Signal	I	—
5	0.35	BN	6136	Control	I	—
6	0.35	WH	1444	12V Reference	I	—
7	0.35	GN	6818	Steering Wheel Resistor Ladder Signal 1	I	—
8	0.35	BN/YE	1884	Cruise Control Set/Coast/Resume/Accelerate Switch Signal	I	—
9	0.5	BK	2050	Ground	I	—
10	0.35	GN/WH	3287	Horn Switch Signal	I	—

R6A Terminating Resistor - High Speed Bus



523630

Connector Part Information

Harness Type: Chassis
OEM Connector: 13510085
Service Connector: 13580114
Description: 2-Way F 150 GT Series, Sealed (BK)

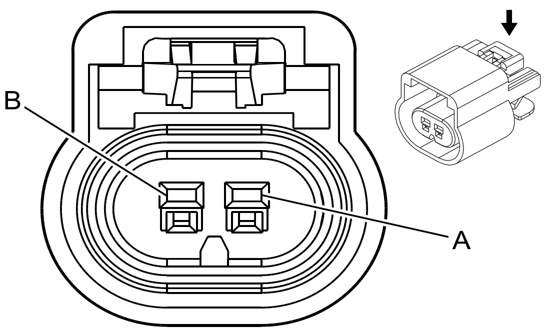
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-14 (GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

R6A Terminating Resistor - High Speed Bus

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.5	L-BU	2500	High Speed GMLAN Serial Data (+) 1	I	—
B	0.5	WH	2501	High Speed GMLAN Serial Data (-) 1	I	—

R10 Cooling Fan Resistor



523630

Connector Part Information

Harness Type: Engine
OEM Connector: 13510085
Service Connector: 13580114
Description: 2-Way F 150 GT Series, Sealed (BK)

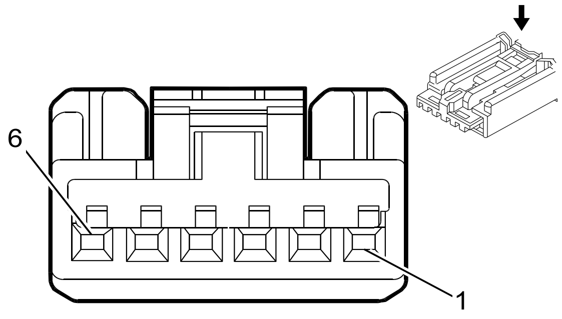
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-14 (GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

R10 Cooling Fan Resistor

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.5	GY/RD	2365	Cooling Fan Speed 5V Reference	I	—
B	0.5	L-BU/VT	2364	Cooling Fan Speed Signal	I	—

S3 Transmission Shift Lever (MYB/M5T)



1862240

Connector Part Information

Harness Type: Floor Console
OEM Connector: AIT2PB-06-1AK
Service Connector: Service by Harness - See Part Catalog
Description: 6-Way F 0.64 Kaizen Series (BK)

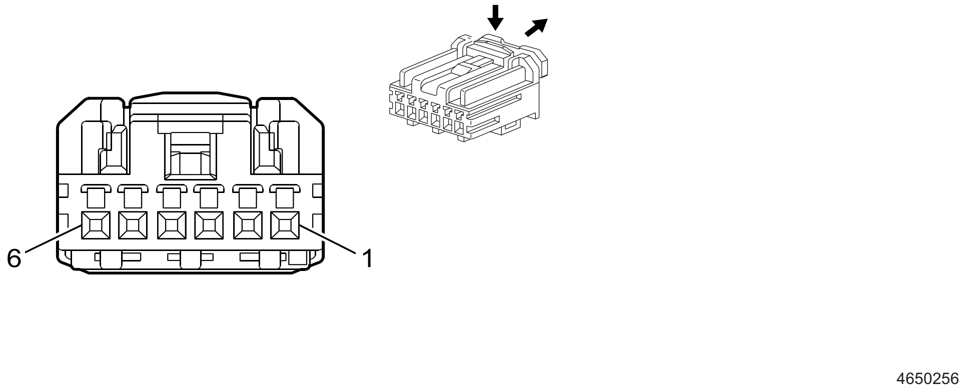
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-64B (LT BU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

S3 Transmission Shift Lever (MYB/M5T)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	—	—	—	Not Occupied	—	—
2	0.5	BK	2050	Ground	I	—
3	0.35	VT/YE	5526	Tap Up/Tap Down Switch Signal	I	—
4	0.5	VT/BK	7553	Park Lock Solenoid Control	I	—
5	—	—	—	Not Occupied	—	—
6	0.5	WH/VT	5905	Key Capture/Column Lock Shift Position Signal	I	—

S13D Door Lock Switch - Driver



Connector Part Information

Harness Type: Driver Door
OEM Connector: HCMPB-C06A-K
Service Connector: Service by Harness - See Part Catalog
Description: 6-Way F 0.64 HCM Series (BK)

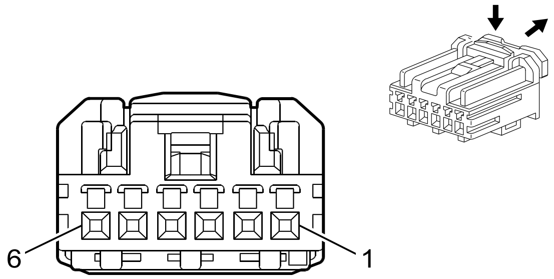
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-64B (LT BU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

S13D Door Lock Switch - Driver

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	—	—	—	Not Occupied	—	—
2	0.35	YE	6817	LED Backlight Dimming Control	I	—
3	0.35	BN/WH	781	Driver Door Lock Switch Unlock Signal	I	—
4	0.35	BN/YE	780	Driver Door Lock Switch Lock Signal	I	—
5	0.5	BK	3550	Ground	I	—
6	—	—	—	Not Occupied	—	—

S13P Door Lock Switch - Passenger



4650256

Connector Part Information

Harness Type: Passenger Door
OEM Connector: HCMPB-C06A-K
Service Connector: Service by Harness - See Part Catalog
Description: 6-Way F 0.64 HCM Series (BK)

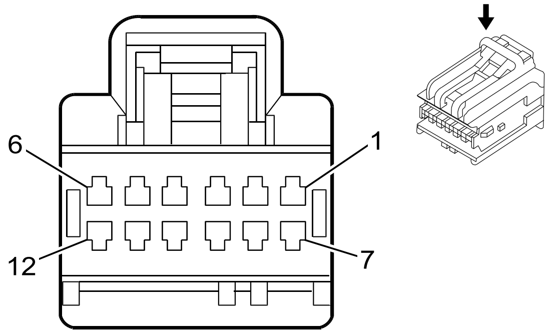
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-64B (LT BU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

S13P Door Lock Switch - Passenger

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	—	—	—	Not Occupied	—	—
2	0.35	YE	6817	LED Backlight Dimming Control	I	—
3	0.35	BN/VT	245	Passenger Door Lock Switch Unlock Control	I	—
4	0.35	YE/VT	244	Passenger Door Lock Switch Lock Control	I	—
5	0.35	BK	3650	Ground	I	—
6	—	—	—	Not Occupied	—	—

S30 Headlamp Switch



1664569

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 31410-0120
Service Connector: 19354838
Description: 12-Way F 0.64 Series, Sealed (BK)

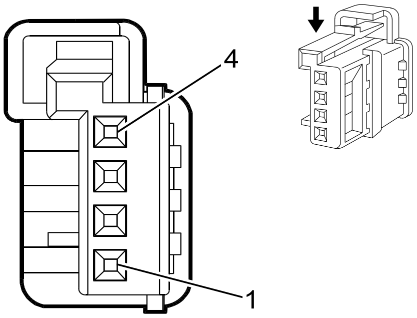
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13575742	J-35616-64B (LT BU)	J-38125-215A	SAIT-A03T-M064	Yazaki 14	P	P
II	13575867	J-35616-64B (LT BU)	J-38125-215A	SAIT-A03T-M064	Yazaki 14	P	P

S30 Headlamp Switch

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	WH/VT	103	Headlamp Switch On Signal	II	—
2	0.5	YE	6817	LED Backlight Dimming Control	I	—
3	0.35	L-GN/BN	306	Headlamp Switch Headlamps Off Signal Control	II	—
4	—	—	—	Not Occupied	—	—
5	0.35	L-GN/GY	13	Headlamp Switch Park Lamp Signal	II	—
6	—	—	—	Not Occupied	—	—
7	0.35	BK/YE	5005	Instrument Panel Lamp Dimmer Switch Low Reference	II	—
8	0.35	BK/WH	2151	Signal Ground	II	—
9	—	—	—	Not Occupied	—	—
10	0.35	L-BU/GY	192	Front Fog Lamp Switch Signal	II	—
11	0.35	YE/GY	44	Instrument Panel Lamp Dimmer Switch Signal	II	—
12	0.35	L-BU/RD	1688	5V Reference	II	—

S32D Seat Heating Switch - Driver



2173576

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 1379029-2
Service Connector: 13576536
Description: 4-Way F 0.64 Micro-Quadlock Series (WH)

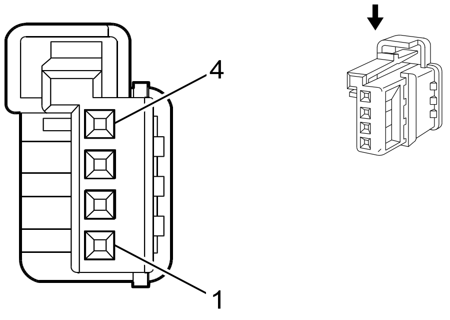
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-64B (LT BU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

S32D Seat Heating Switch - Driver

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	BK	2050	Ground	I	—
2	—	—	—	Not Occupied	—	—
3	0.5	L-GN/WH	7527	Local Interconnect Network Serial Data Bus 5	I	—
4	0.5	RD/GY	2840	Battery Positive Voltage	I	—

S32P Seat Heating Switch - Passenger



2667612

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 1379029-6
Service Connector: 13587956
Description: 4-Way F 0.64 Micro-Quadlock Series (BN)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-64B (LT BU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

S32P Seat Heating Switch - Passenger

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	BK	2050	Ground	I	—
2	—	—	—	Not Occupied	—	—
3	0.5	L-GN/WH	7527	Local Interconnect Network Serial Data Bus 5	I	—
4	0.5	RD/GY	2840	Battery Positive Voltage	I	—

S33 Horn Switch X1

—

Connector Part Information

Harness Type: Steering Wheel
OEM Connector: 2–520272–2
Service Connector: Service by Harness - See Part Catalog
Description: 1-Way

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	Not Available	No Tool Required	Not Required	Not Required	Not Required	Not Required

S33 Horn Switch X1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	GN/WH	3287	Horn Switch Signal	I	—

S33 Horn Switch X2

—

Connector Part Information

Harness Type: Steering Wheel
OEM Connector: Not Available
Service Connector: Service by Harness - See Part Catalog
Description: 11-Way

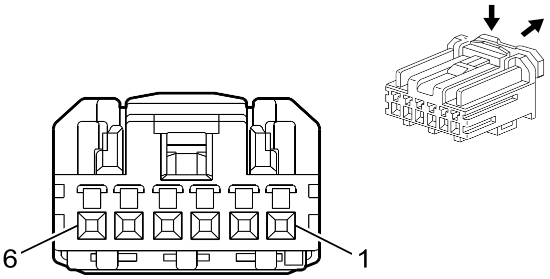
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	Not Available	No Tool Required	Not Required	Not Required	Not Required	Not Required

S33 Horn Switch X2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	BK	2050	Ground	I	—
2	0.35	GN/WH	3287	Horn Switch Signal	I	—

S39 Ignition Switch



Connector Part Information

- Harness Type: Instrument Panel
- OEM Connector: HCMPB-C06A-K
- Service Connector: 19368127
- Description: 6-Way F 0.64 HCM Series (BK)

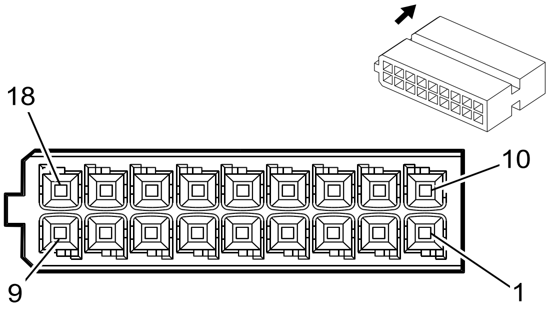
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-64B (LT BU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

S39 Ignition Switch

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	VT/BK	3	Run/Crank Ignition 1 Voltage	I	—
2	0.5	RD/L-BU	540	Battery Positive Voltage	I	—
3	0.5	VT/YE	4	Accessory Ignition Voltage	I	—
4	0.5	WH/VT	1020	Off/Run/Crank Ignition Voltage	I	—
5	—	—	—	Not Occupied	—	—
6	0.5	WH/BK	1073	Ignition Key Resistor Signal	I	—

S48A Multifunction Switch - Instrument Panel



1457336

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 1379102-1
Service Connector: 13504129
Description: 18-Way F 0.64 Micro-Quadlock Series (BK)

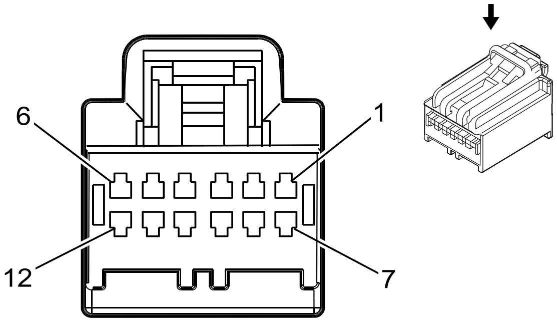
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13575859	J-35616-64B (LT BU)	J-38125-12A	Not Available	Not Available	Not Available	Not Available
II	19329754	J-35616-64B (LT BU)	J-38125-12A	Not Available	Not Available	Not Available	Not Available

S48A Multifunction Switch - Instrument Panel

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	YE	6817	LED Backlight Dimming Control	II	—
2	0.35	WH	6816	Indicator Dimming Control	II	—
3	0.5	YE/L-GN	7122	Axle Differential Lock Switch Signal	I	—
4	0.35	L-BU/YE	6844	ABS/TCS Hill Descent Control Switch Signal	II	—
5	0.35	WH	3152	Lane Departure Warning Indicator Control	II	—
6	0.5	VT/GY	7117	Front Axle Differential Lock Indicator Control	I	—
7	0.5	BN/WH	1429	Standing Lamp Relay Control	I	—
8	0.35	GY/WH	3153	Lane Departure Warning Disable Switch Signal	II	—
9	0.5	BK/YE	7259	Axle Differential Lock Switch Low Reference	I	—
10	0.35	L-GN/WH	111	Hazard Switch Signal	II	—
11	0.35	L-BU/GY	553	Shift Select Switch Performance Signal	II	—
12	0.5	YE	7115	Rear Axle Differential Lock Indicator Control	I	—
13	—	—	—	Not Occupied	—	—
14	0.35	BK	2050	Ground	II	—
15	0.35	GY/L-GN	2555	Rear Park Assist Disable Signal	II	—
16	0.35	L-GN/BN	5852	Rear Park Assist LED Disable Signal	II	—
17	0.35	L-BU/VT	1788	Traction Control Switch Signal 1	II	—
18	0.35	GY	158	Cargo Lamp Switch Signal	II	—

S52 Outside Rearview Mirror Switch



3556661

Connector Part Information

Harness Type: Driver Door
OEM Connector: 31410-0121
Service Connector: Service by Harness - See Part Catalog
Description: 12-Way F 64 Series, Sealed (GY)

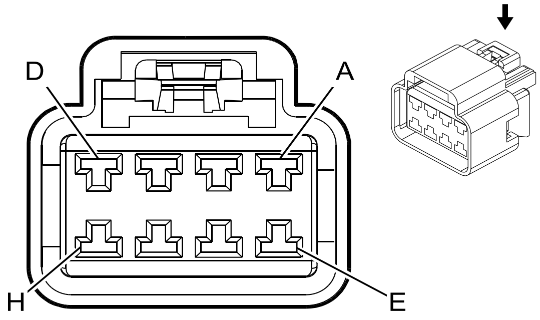
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-64B (LT BU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

S52 Outside Rearview Mirror Switch

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	YE	6817	LED Backlight Dimming Control	I	—
2 - 4	—	—	—	Not Occupied	—	—
5	0.35	WH	3398	Passenger Mirror Motor Common Control	I	—
6	0.35	YE/BN	3391	Driver Mirror Motor Common Control	I	—
7	0.35	YE/VT	3397	Passenger Mirror Motor Up (+) Down (-) Control	I	—
8	0.35	VT/L-BU	3390	Driver Mirror Motor Up (+) Down (-) Control	I	—
9	0.35	L-GN/BK	3396	Passenger Mirror Motor Right (+) Left (-) Control	I	—
10	0.35	BN/BK	3389	Driver Mirror Motor Right (+) Left (-) Control	I	—
11	0.5	BK	3550	Ground	I	—
12	0.35	RD/VT	1940	Battery Positive Voltage	I	—

S64D Seat Adjuster Switch - Driver



556473

Connector Part Information

Harness Type: Driver Seat Cushion
OEM Connector: 15326924
Service Connector: Service by Harness - See Part Catalog
Description: 8-Way F 280 GT Series (BK)

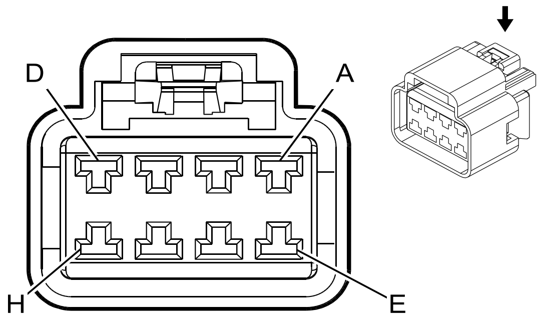
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	Not Available	No Tool Required	Not Required	Not Required	Not Required	Not Required

S64D Seat Adjuster Switch - Driver

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	—	YE	282	Driver Power Seat Rear Vertical Motor Up Control	I	—
B	—	BK	3750	Ground	I	—
C	—	YE/BU	285	Driver Power Seat Horizontal Motor Forward Control	I	—
D	—	RD/YE	5040	Battery Positive Voltage	I	—
E	—	—	—	Not Occupied	—	—
F	—	GY/GN	284	Driver Power Seat Horizontal Motor Rearward Control	I	—
G	—	—	—	Not Occupied	—	—
H	—	GY/BU	283	Driver Power Seat Rear Vertical Motor Down Control	I	—

S64P Seat Adjuster Switch - Passenger (AAQ)



556473

Connector Part Information

Harness Type: Passenger Seat Cushion
OEM Connector: 15326924
Service Connector: Service by Harness - See Part Catalog
Description: 8-Way F 280 GT Series (BK)

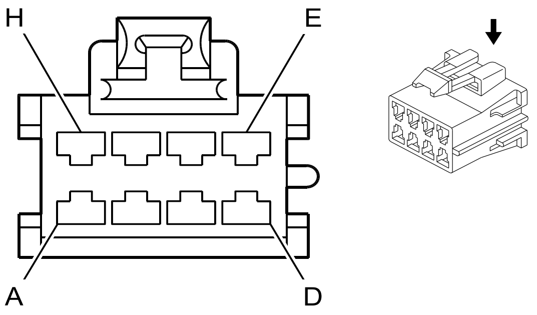
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	Not Available	No Tool Required	Not Required	Not Required	Not Required	Not Required

S64P Seat Adjuster Switch - Passenger (AAQ)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	1.5	GN/WH	288	Passenger Power Seat Rear Vertical Motor Up Control	I	—
B	2.5	BK	3850	Ground	I	—
C	1.5	YE/BU	290	Passenger Power Seat Horizontal Motor Rearward Control	I	—
D	2.5	RD/BN	1440	Battery Positive Voltage	I	—
E	—	—	—	Not Occupied	—	—
F	1.5	YE/WH	296	Passenger Power Seat Horizontal Motor Forward Control	I	—
G	—	—	—	Not Occupied	—	—
H	1.5	BU/WH	289	Passenger Power Seat Rear Vertical Motor Down Control	I	—

S65D Seat Lumbar Support Switch - Driver



73155

Connector Part Information

Harness Type: Driver Seat Cushion
OEM Connector: 12089287
Service Connector: Service by Harness - See Part Catalog
Description: 8-Way F 280 Metri-Pack Series (NA)

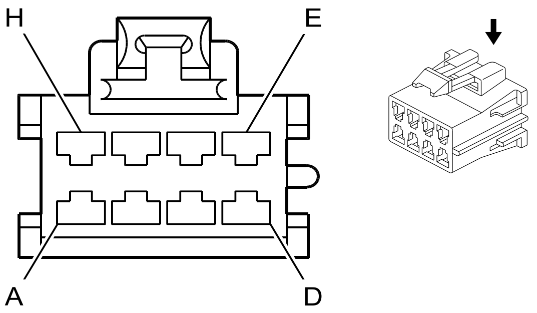
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	Not Available	No Tool Required	Not Required	Not Required	Not Required	Not Required

S65D Seat Lumbar Support Switch - Driver

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	—	VT	610	Driver Power Seat Lumbar Motor Rearward Control	I	—
B - C	—	—	—	Not Occupied	—	—
D	—	BU	611	Driver Power Seat Lumbar Motor Forward Control	I	—
E	—	RD/YE	5040	Battery Positive Voltage	I	—
F - G	—	—	—	Not Occupied	—	—
H	—	BK	3750	Ground	I	—

S65P Seat Lumbar Support Switch - Passenger (AT9)



73155

Connector Part Information

Harness Type: Passenger Seat Cushion
OEM Connector: 12089287
Service Connector: Service by Harness - See Part Catalog
Description: 8-Way F 280 Metri-Pack Series (NA)

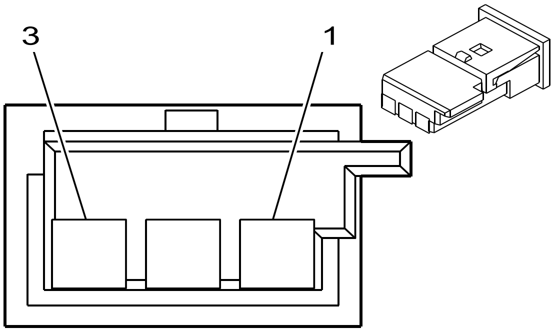
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	Not Available	No Tool Required	Not Required	Not Required	Not Required	Not Required

S65P Seat Lumbar Support Switch - Passenger (AT9)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	1.5	VT	210	Passenger Power Seat Lumbar Motor Rearward Control	I	—
B - C	—	—	—	Not Occupied	—	—
D	1.5	BU	211	Passenger Power Seat Lumbar Motor Forward Control	I	—
E	2.5	RD/BN	1440	Battery Positive Voltage	I	—
F - G	—	—	—	Not Occupied	—	—
H	2.5	BK	3850	Ground	I	—

S70E Steering Wheel Controls Switch - Radio Presets



647970

Connector Part Information

Harness Type: Steering Wheel
OEM Connector: 13153088
Service Connector: Service by Harness - See Part Catalog
Description: 3-Way F 0.64 Micro-Quadlock Series (BK)

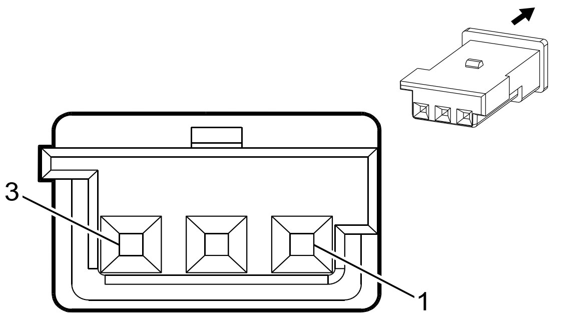
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	Not Available	No Tool Required	Not Required	Not Required	Not Required	Not Required

S70E Steering Wheel Controls Switch - Radio Presets

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	—	WH/YE	4313	Radio Favorite Forward Signal	I	—
2	—	YE/RD	4312	Radio Favorite Back Signal	I	—
3	—	BK	2050	Ground	I	—

S70F Steering Wheel Controls Switch - Radio Volume (W1Y)



2179789

Connector Part Information

Harness Type: Steering Wheel
OEM Connector: 19153569
Service Connector: Service by Harness - See Part Catalog
Description: 3-Way F Micro-Quadlock Series (PU)

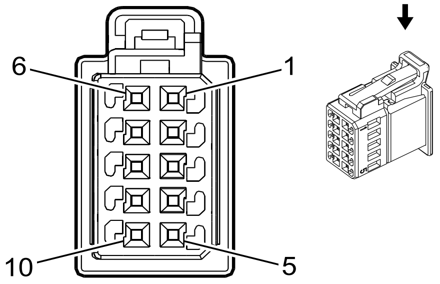
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	Not Available	No Tool Required	Not Required	Not Required	Not Required	Not Required

S70F Steering Wheel Controls Switch - Radio Volume (W1Y)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	—	BU	4315	Radio Volume Up Signal	I	—
2	—	GY/BN	4314	Radio Volume Down Signal	I	—
3	—	BK	2050	Ground	I	—

S70L Steering Wheel Controls Switch - Left



2830955

Connector Part Information

Harness Type: Steering Wheel
OEM Connector: 13582766
Service Connector: Service by Harness - See Part Catalog
Description: 10-Way F 0.64 Micro-Quadlock Series (BK)

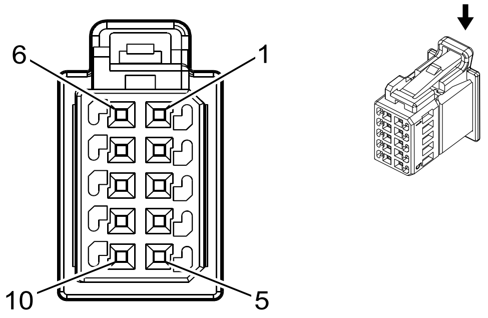
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	No Tool Required	No Tool Required	Not Required	Not Required	Not Required	Not Required
II	Not Required	Not Available	No Tool Required	Not Required	Not Required	Not Required	Not Required

S70L Steering Wheel Controls Switch - Left

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	BK	2050	Ground	II	—
2	0.5	BK	2050	Ground	I	—
3	0.35	GY/OG	5737	Adaptive Cruise Control Gap Up/Down Switch Signal	II	—
4	0.35	BN/YE	1884	Cruise Control Set/Coast/Resume/Accelerate Switch Signal	II	—
5	0.35	YE/GY	5883	Heated Steering Wheel Switch Signal	II	—
6	0.35 0.35	BN BN	6817 6136	LED Backlight Dimming Control Control	II II	W1Y -W1Y
7	0.35	WH	6816	Indicator Dimming Control	II	—
8	0.35	GN	5884	Heated Steering Wheel Switch LED Control	II	—
9	0.35	WH	1444	12V Reference	II	—
10	0.35	RD/YE	3040	Battery Positive Voltage	II	—

S70R Steering Wheel Controls Switch - Right



3824564

Connector Part Information

Harness Type: Steering Wheel
OEM Connector: 13582767
Service Connector: Service by Harness - See Part Catalog
Description: 10-Way F 0.64 Micro-Quadlock Series (BK)

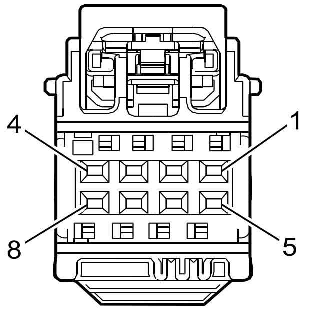
Terminal Part Information

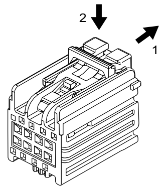
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	Not Available	No Tool Required	Not Required	Not Required	Not Required	Not Required

S70R Steering Wheel Controls Switch - Right

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35 0.35	BN BN	6817 6136	LED Backlight Dimming Control Control	I I	W1Y -W1Y
2	0.35	WH/RD	1444	12V Reference	I	—
3	0.5	GN/BK	3894	Local Interconnect Network Serial Data Bus 12	I	—
4	0.35	GN	6818	Steering Wheel Resistor Ladder Signal 1	I	—
5	0.35	RD/YE	3040	Battery Positive Voltage	I	—
6	0.35	BK	2050	Ground	I	—
7	0.35	BU	4315	Radio Volume Up Signal	I	—
8	0.35	GY/BN	4314	Radio Volume Down Signal	I	—
9	0.35	WH/YE	4313	Radio Favorite Forward Signal	I	—
10	0.35	YE/RD	4312	Radio Favorite Back Signal	I	—

S76 Trailer Brake Control Switch (JL1)





4808677

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 7289-2894-30
Service Connector: 19368548
Description: 8-Way F 0.64 YESC Series (BK)

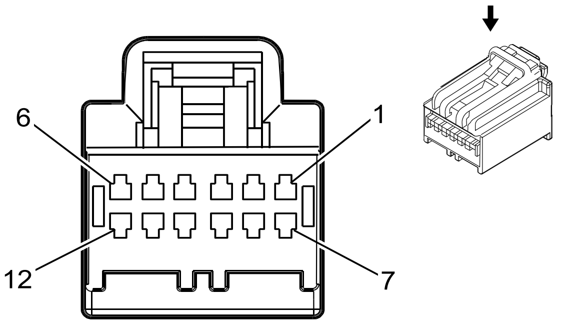
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-64B (LT BU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

S76 Trailer Brake Control Switch (JL1)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1 - 2	—	—	—	Not Occupied	—	—
3	0.5	L-BU/RD	7632	Integrated Trailer Brake Controller Switch 5V Reference	I	—
4	0.5	YE	7635	Integrated Trailer Brake Controller Manual Apply Signal	I	—
5	0.5	BN	7634	Integrated Trailer Brake Controller Redundant Manual Apply Signal	I	—
6	0.5	L-GN/BK	7633	Integrated Trailer Brake Controller User Gain Signal	I	—
7	0.35	YE	6817	LED Backlight Dimming Control	I	—
8	0.5	BK/BN	7631	Integrated Trailer Brake Controller Switch Low Reference	I	—

S77 Transfer Case Shift Control Switch



3556661

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 31410-0121
Service Connector: 13593929
Description: 12-Way F 64 Series, Sealed (GY)

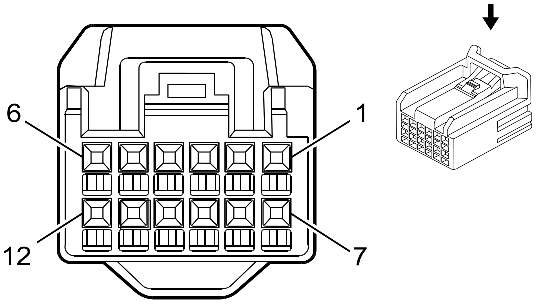
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13575742	J-35616-64B (LT BU)	J-38125-215A	SAIT-A03T-M064	Yazaki 14	P	P
II	13575867	J-35616-64B (LT BU)	J-38125-215A	SAIT-A03T-M064	Yazaki 14	P	P

S77 Transfer Case Shift Control Switch

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	GY	5054	Sport Mode Switch Signal	II	—
2	0.5	VT/BN	300	Run Ignition 3 Voltage	I	—
3	0.35	BN	1560	Neutral Indicator Control	II	—
4	0.35	WH	6816	Indicator Dimming Control	II	—
5	0.35	YE	6817	LED Backlight Dimming Control	II	—
6	0.5	BK	2050	Ground	I	—
7	0.35	GY/L-GN	1561	AWD Indicator Control	II	—
8	0.35	L-GN/BK	1563	2 HI Indicator Control	II	—
9	0.35	BN/BK	1566	4 HI Indicator Control	II	—
10	0.35	VT/WH	1565	4 LO Indicator Control	II	—
11	0.35	GY/RD	6029	Four Wheel Drive Mode Switch 5V Reference	II	—
12	0.35	L-BU/YE	1693	Four Wheel Drive Switch Signal	II	—

S78 Turn Signal/Multifunction Switch



2180217

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: SHC2PB-12-2AK
Service Connector: 13576635
Description: 12-Way F 0.64 Series (BK)

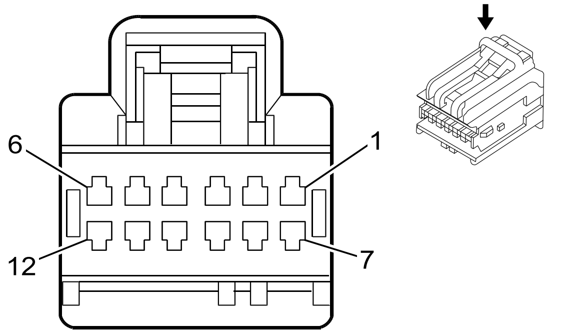
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13575870	J-35616-64B (LT BU)	J-38125-12A	SNAC3-A021T-M0.64	Delphi 20	J	J

S78 Turn Signal/Multifunction Switch

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	WH/L-GN	663	Hazard Switch Left Turn Signal	I	—
2	0.35	WH	524	Headlamp Dimmer Switch High Beam Signal	I	—
3	0.35	BK/WH	2151	Signal Ground	I	—
4	0.35	YE/BN	307	Headlamp Switch Flash To Pass Signal	I	—
5	0.35	GY/L-BU	893	Driver Information Center Select Menu Switch Signal	I	—
6	0.35	BK/BN	897	Driver Information Center Switch Low Reference	I	—
7	0.35	VT/L-BU	664	Hazard Switch Right Turn Signal	I	—
8 - 11	—	—	—	Not Occupied	—	—
12	0.35	L-GN/WH	1358	Driver Information Center Switch Signal	I	—

S79D Window Switch - Driver



1664569

Connector Part Information

Harness Type: Driver Door
OEM Connector: 31410-0120
Service Connector: Service by Harness - See Part Catalog
Description: 12-Way F 0.64 Series, Sealed (BK)

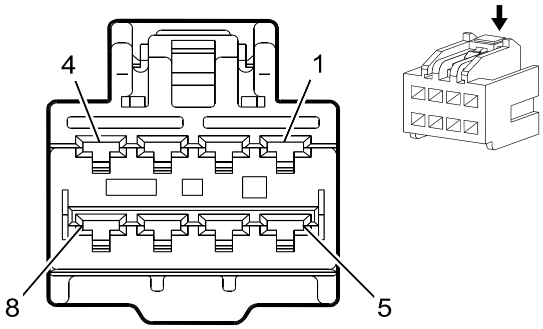
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-64B (LT BU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

S79D Window Switch - Driver

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.75	BK	3550	Ground	I	—
2	0.35	L-GN/VT	7628	Power Window Motor Left Front Express Control	I	—
3	0.35	GY	1136	Power Window Master Switch Left Front Down Signal	I	—
4	0.5	RD/VT	1940	Battery Positive Voltage	I	—
5	0.5	L-GN/YE	6134	Local Interconnect Network Serial Data Bus 3	I	—
6	0.35	L-GN/WH	1300	Power Window Master Switch Left Front Up Signal	I	—
7	0.35	WH/VT	3270	Driver Door Lock Motor Status Signal	I	—
8	0.35	L-BU/VT	1124	Door Lock Key Switch Unlock Signal	I	—
9	—	—	—	Not Occupied	—	—
10	0.35	YE/BN	3265	Child Security Lock Switch Signal	I	—
11	0.35	WH	6816	Indicator Dimming Control	I	—
12	0.35	GY	5697	Child Lockout Indicator Control	I	—

S79LR Window Switch - Left Rear (Crew Cab)



1653389

Connector Part Information

Harness Type: Left Rear Door
OEM Connector: 6098-4713
Service Connector: Service by Harness - See Part Catalog
Description: 8-Way F 2.8 Series (BK)

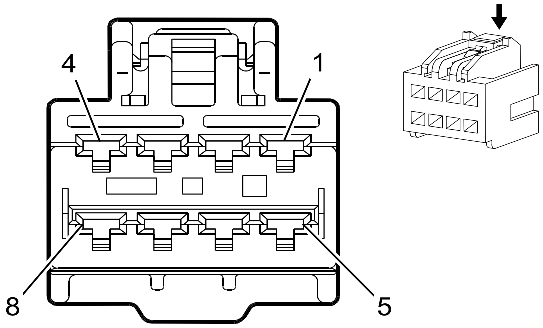
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-35 (VT)	No Tool Required	Not Required	Not Required	Not Required	Not Required

S79LR Window Switch - Left Rear (Crew Cab)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	L-GN/GY	6135	Local Interconnect Network Serial Data Bus 4	I	—
2	0.35	GY	747	Left Rear Door Ajar Switch Signal	I	—
3	0.35	BK	3350	Ground	I	—
4	—	—	—	Not Occupied	—	—
5	2.5	BK	3350	Ground	I	—
6	2.5	L-BU/VT	668	Power Window Motor Left Rear Up Control	I	—
7	2.5	YE/L-BU	669	Power Window Motor Left Rear Down Control	I	—
8	2.5	RD/L-BU	1240	Battery Positive Voltage	I	—

S79P Window Switch - Passenger



1653389

Connector Part Information

Harness Type: Passenger Door
OEM Connector: 6098-4713
Service Connector: Service by Harness - See Part Catalog
Description: 8-Way F 2.8 Series (BK)

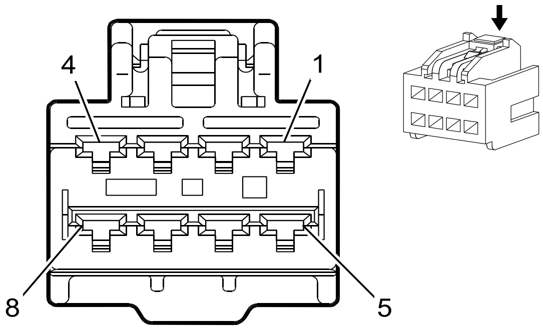
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-35 (VT)	No Tool Required	Not Required	Not Required	Not Required	Not Required

S79P Window Switch - Passenger

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	2.5	BK	3650	Ground	I	—
2	2.5	L-GN/GY	3387	Power Window Motor Passenger Up Control	I	—
3	2.5	YE/L-BU	3388	Power Window Motor Passenger Down Control	I	—
4	2.5	RD/WH	1340	Battery Positive Voltage	I	—
5	0.5	L-GN/YE	6134	Local Interconnect Network Serial Data Bus 3	I	—
6 - 7	—	—	—	Not Occupied	—	—
8	0.35	GY	746	Right Front Door Ajar Switch Signal	I	—

S79RR Window Switch - Right Rear



1653389

Connector Part Information

Harness Type: Right Rear Door
OEM Connector: 6098-4713
Service Connector: Service by Harness - See Part Catalog
Description: 8-Way F 2.8 Series (BK)

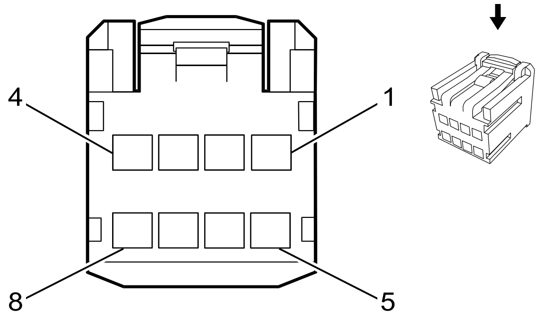
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-35 (VT)	No Tool Required	Not Required	Not Required	Not Required	Not Required

S79RR Window Switch - Right Rear

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	L-GN/GY	6135	Local Interconnect Network Serial Data Bus 4	I	—
2	0.35	GY	748	Right Rear Door Ajar Switch Signal	I	—
3 - 4	—	—	—	Not Occupied	—	—
5	2.5	BK	3450	Ground	I	—
6	2.5	L-BU/GY	670	Power Window Motor Right Rear Up Control	I	—
7	2.5	L-GN/BK	671	Power Window Motor Right Rear Down Control	I	—
8	2.5	RD/WH	1340	Battery Positive Voltage	I	—

S82 Windshield Wiper/Washer Switch



2180203

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: HCMDPB-08-K
Service Connector: 13576541
Description: 8-Way F 1.2 HCM Series (BK)

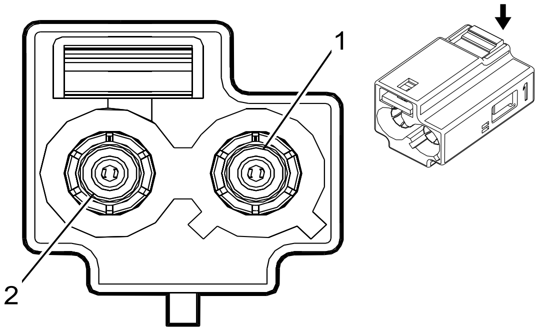
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-64B (LT BU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

S82 Windshield Wiper/Washer Switch

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	GY	1715	Windshield Wiper Switch High Signal	I	—
2	0.35	BK/GY	6009	Windshield Wiper Switch Low Reference	I	—
3	0.35	YE/L-BU	1714	Windshield Wiper Switch Low Signal	I	—
4	—	—	—	Not Occupied	—	—
5	0.35	WH/BK	94	Windshield Washer Switch Signal	I	—
6 - 8	—	—	—	Not Occupied	—	—

T2RR Antenna - Roof Rear



3969442

Connector Part Information

Harness Type: Body COAX
OEM Connector: 13581975
Service Connector: Service by Cable Assembly — See Part Catalog
Description: 2-Way F Coax Type (CU)

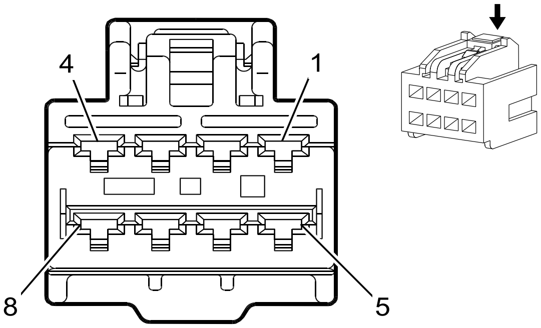
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	No Tool Required	No Tool Required	Not Required	Not Required	Not Required	Not Required

T2RR Antenna - Roof Rear

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1 - 2	—	—	—	Not Occupied	—	—
2-BK	—	—	COAX	Coax Cable	I	—
BK	—	—	COAX	Coax Cable	I	—

T3 Audio Amplifier X1



1653389

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 6098-4713
Service Connector: 13580111
Description: 8-Way F 2.8 Series (BK)

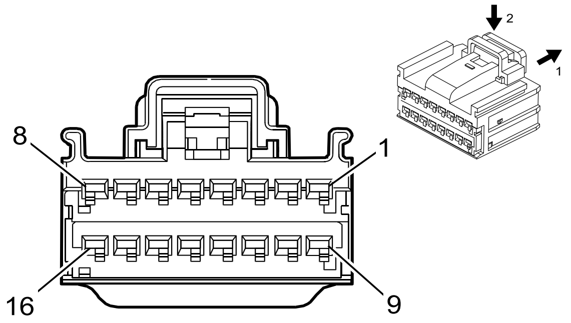
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-35 (VT)	No Tool Required	Not Required	Not Required	Not Required	Not Required

T3 Audio Amplifier X1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	1	YE	200	Right Front Speaker Control (+) 1	I	—
2	—	—	—	Not Occupied	—	—
3	1	L-BU	201	Left Front Speaker Control (+) 1	I	—
4	2.5	RD/YE	3740	Battery Positive Voltage	I	—
5	1	YE/BK	117	Right Front Speaker Signal (-) 1	I	—
6	—	—	—	Not Occupied	—	—
7	1	BN/L-BU	118	Left Front Speaker Signal (-) 1	I	—
8	2.5	BK/WH	2251	Signal Ground	I	—

T3 Audio Amplifier X2



4332214

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 15512506
Service Connector: 13591061
Description: 16-Way F 1.5 OCS Series (BK)

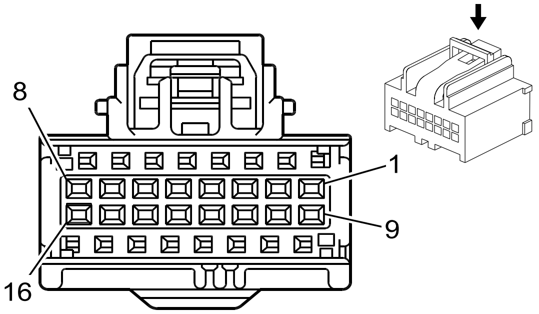
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13575708	J-35616-2A (GY)	J-38125-11A	Not Available	Not Available	Not Available	Not Available

T3 Audio Amplifier X2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	—	—	—	Not Occupied	—	—
2	0.75	VT/BN	1952	Right Front Tweeter Speaker (-) Low Reference	I	—
3	0.75	YE/L-BU	1856	Left Front Tweeter Speaker Control (+)	I	—
4	1	WH	46	Right Rear Speaker Control (+)	I	—
5	1	L-GN	199	Left Rear Speaker Control (+)	I	—
6	—	—	—	Not Occupied	—	—
7	0.75	YE/WH	1860	Front Center Speaker Control (+)	I	—
8 - 9	—	—	—	Not Occupied	—	—
10	0.75	BN/L-GN	1852	Right Front Tweeter Speaker Control (+)	I	—
11	0.75	VT/GY	1956	Left Front Tweeter Speaker (-) Low Reference	I	—
12	1	L-BU/BK	115	Right Rear Speaker Signal (-)	I	—
13	1	L-GN/BK	116	Left Rear Speaker Signal (-)	I	—
14	—	—	—	Not Occupied	—	—
15	0.75	L-BU/YE	1960	Front Center Speaker (-) Low Reference	I	—
16	—	—	—	Not Occupied	—	—

T3 Audio Amplifier X3



1653409

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 15136073
Service Connector: -
Description: 16-Way F 0.64 Kaizen Series (BK)

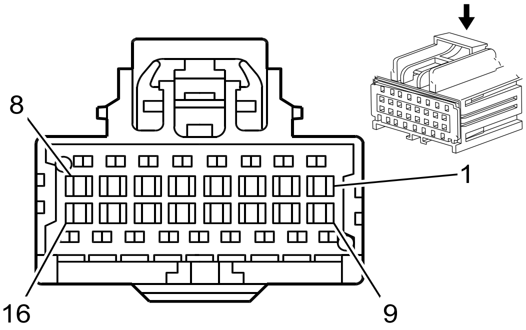
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13575742	J-35616-64B (LT BU)	J-38125-215A	SAIT-A03T-M064	Yazaki 14	P	P

T3 Audio Amplifier X3

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.75	GY/L-GN	1102	Low Speed GMLAN Serial Data #2	I	—
2 - 16	—	—	—	Not Occupied	—	—

T3 Audio Amplifier X4



1664488

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 7283-9078-80
Service Connector: 15136074
Description: 16-Way F 0.64 Kaizen Series (BN)

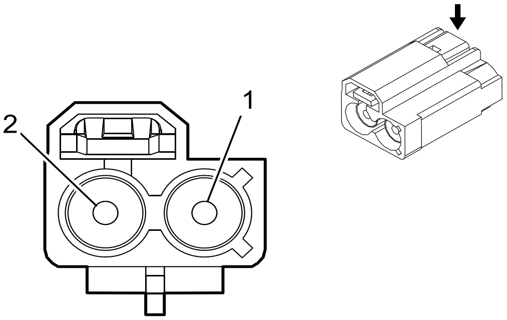
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13575867	J-35616-64B (LT BU)	J-38125-215A	SAIT-A03T-M064	Yazaki 14	P	P

T3 Audio Amplifier X4

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1 - 2	—	—	—	Not Occupied	—	—
3	0.35	GY/BK	7215	Ethernet Bus 6 (+)	I	—
4	0.35	BN/BK	7214	Ethernet Bus 6 (-)	I	—
5 - 16	—	—	—	Not Occupied	—	—

T4G Cellular Phone, Navigation, and Digital Radio Antenna



4283324

Connector Part Information

Harness Type: Body Coax
OEM Connector: 13589366
Service Connector: Service by Cable Assembly — See Part Catalog
Description: 2-Way F Coax Type (PU)

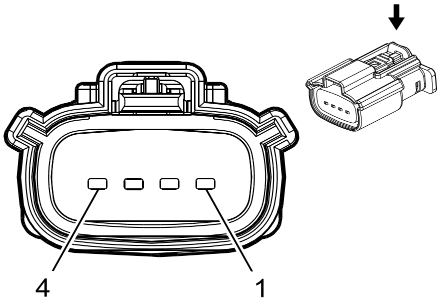
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	No Tool Required	No Tool Required	Not Required	Not Required	Not Required	Not Required

T4G Cellular Phone, Navigation, and Digital Radio Antenna

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1 - 2	—	—	—	Not Occupied	—	—
1-VT	—	—	COAX	Coax Cable	I	—
2-VT	—	—	COAX	Coax Cable	I	—

T8A Ignition Coil 1 (LCV)



Connector Part Information

Harness Type: Engine
OEM Connector: 33471-0461
Service Connector: 19299695
Description: 4-Way F 1.5 Series, Sealed (BK)

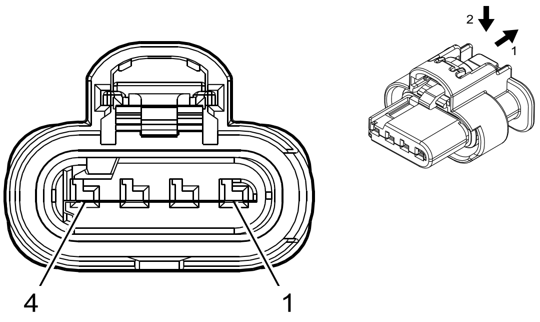
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-14 (GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required
II	Not Required	J-35616-2A (GY)	No Tool Required	Not Required	Not Required	Not Required	Not Required

T8A Ignition Coil 1 (LCV)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	1	BK	1450	Ground	I	—
2	0.5	BK/L-BU	2129	Ignition Control Low Reference Bank 1	II	—
3	0.5	L-BU/VT	2121	Ignition Control 1	II	—
4	1	VT/L-BU	5291	Powertrain Main Relay Fused Supply 2	I	—

T8A Ignition Coil 1 (LGZ)



4210809

Connector Part Information

Harness Type: Engine
OEM Connector: 1-2296696-1
Service Connector: 19367009
Description: 4-Way F 1.2 MCON-CB Series, Sealed (BK)

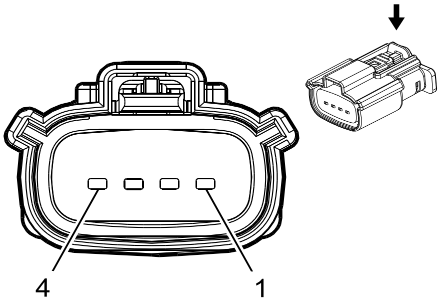
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-16 (LT GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

T8A Ignition Coil 1 (LGZ)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	1	BK	1450	Ground	I	—
2	0.5	BK/L-BU	2129	Ignition Control Low Reference Bank 1	I	—
3	0.5	L-BU/VT	2121	Ignition Control 1	I	—
4	1	VT/L-BU	5291	Powertrain Main Relay Fused Supply 2	I	—

T8B Ignition Coil 2 (LCV)



2717131

Connector Part Information

Harness Type: Engine
OEM Connector: 33471-0461
Service Connector: 19299695
Description: 4-Way F 1.5 Series, Sealed (BK)

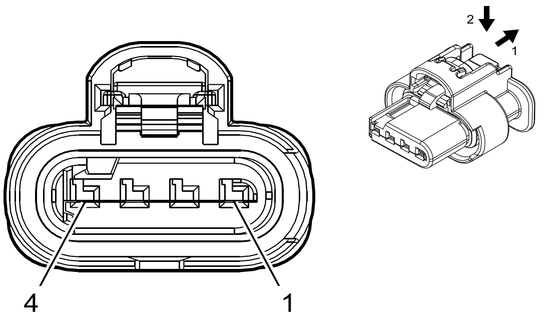
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-14 (GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required
II	Not Required	J-35616-2A (GY)	No Tool Required	Not Required	Not Required	Not Required	Not Required

T8B Ignition Coil 2 (LCV)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	1	BK	1450	Ground	I	—
2	0.5	BK/L-BU	2129	Ignition Control Low Reference Bank 1	II	—
3	0.5	L-BU/WH	2122	Ignition Control 2	II	—
4	1	VT/L-BU	5291	Powertrain Main Relay Fused Supply 2	I	—

T8B Ignition Coil 2 (LGZ)



4210809

Connector Part Information

Harness Type: Engine
OEM Connector: 1-2296696-1
Service Connector: 19367009
Description: 4-Way F 1.2 MCON-CB Series, Sealed (BK)

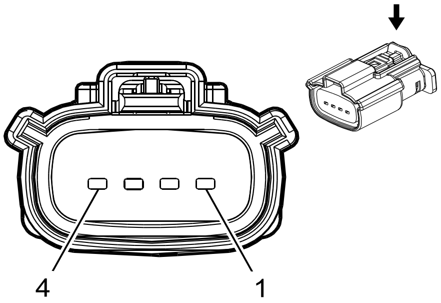
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-16 (LT GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

T8B Ignition Coil 2 (LGZ)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	1	BK	1550	Ground	I	—
2	0.5	BK/GY	2130	Ignition Control Low Reference Bank 2	I	—
3	0.5	L-BU/WH	2122	Ignition Control 2	I	—
4	1	VT/L-BU	5292	Powertrain Main Relay Fused Supply 3	I	—

T8C Ignition Coil 3 (LCV)



2717131

Connector Part Information

Harness Type: Engine
OEM Connector: 33471-0461
Service Connector: 19299695
Description: 4-Way F 1.5 Series, Sealed (BK)

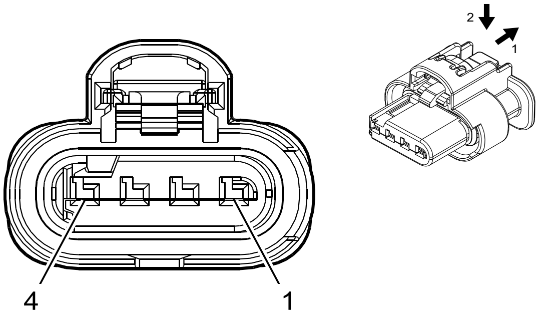
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-14 (GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required
II	Not Required	J-35616-2A (GY)	No Tool Required	Not Required	Not Required	Not Required	Not Required

T8C Ignition Coil 3 (LCV)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	1	BK	1450	Ground	I	—
2	0.5	BK/L-BU	2129	Ignition Control Low Reference Bank 1	II	—
3	0.5	L-GN/L-BU	2123	Ignition Control 3	II	—
4	1	VT/L-BU	5291	Powertrain Main Relay Fused Supply 2	I	—

T8C Ignition Coil 3 (LGZ)



4210809

Connector Part Information

Harness Type: Engine
OEM Connector: 1-2296696-1
Service Connector: 19367009
Description: 4-Way F 1.2 MCON-CB Series, Sealed (BK)

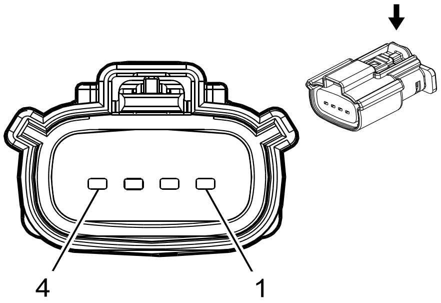
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-16 (LT GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

T8C Ignition Coil 3 (LGZ)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	1	BK	1450	Ground	I	—
2	0.5	BK/L-BU	2129	Ignition Control Low Reference Bank 1	I	—
3	0.5	L-GN/L-BU	2123	Ignition Control 3	I	—
4	1	VT/L-BU	5291	Powertrain Main Relay Fused Supply 2	I	—

T8D Ignition Coil 4 (LCV)



2717131

Connector Part Information

Harness Type: Engine
OEM Connector: 33471-0461
Service Connector: 19299695
Description: 4-Way F 1.5 Series, Sealed (BK)

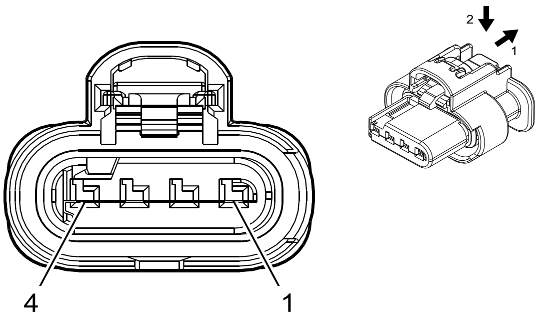
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-14 (GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required
II	Not Required	J-35616-2A (GY)	No Tool Required	Not Required	Not Required	Not Required	Not Required

T8D Ignition Coil 4 (LCV)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	1	BK	1450	Ground	I	—
2	0.5	BK/L-BU	2129	Ignition Control Low Reference Bank 1	II	—
3	0.5	YE/L-BU	2124	Ignition Control 4	II	—
4	1	VT/L-BU	5291	Powertrain Main Relay Fused Supply 2	I	—

T8D Ignition Coil 4 (LGZ)



4210809

Connector Part Information

Harness Type: Engine
OEM Connector: 1-2296696-1
Service Connector: 19367009
Description: 4-Way F 1.2 MCON-CB Series, Sealed (BK)

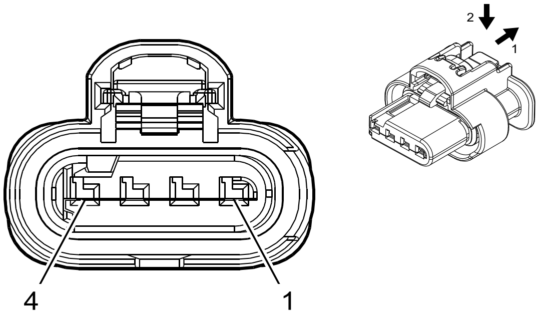
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-16 (LT GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

T8D Ignition Coil 4 (LGZ)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	1	BK	1550	Ground	I	—
2	0.5	BK/GY	2130	Ignition Control Low Reference Bank 2	I	—
3	0.5	YE/L-BU	2124	Ignition Control 4	I	—
4	1	VT/L-BU	5292	Powertrain Main Relay Fused Supply 3	I	—

T8E Ignition Coil 5



4210809

Connector Part Information

Harness Type: Engine
OEM Connector: 1-2296696-1
Service Connector: 19367009
Description: 4-Way F 1.2 MCON-CB Series, Sealed (BK)

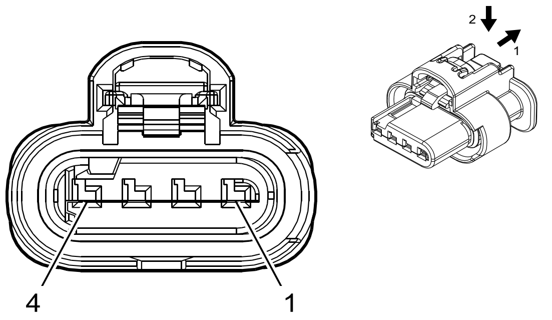
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-16 (LT GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

T8E Ignition Coil 5

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	1	BK	1450	Ground	I	—
2	0.5	BK/L-BU	2129	Ignition Control Low Reference Bank 1	I	—
3	0.5	L-BU/GY	2125	Ignition Control 5	I	—
4	1	VT/L-BU	5291	Powertrain Main Relay Fused Supply 2	I	—

T8F Ignition Coil 6



4210809

Connector Part Information

Harness Type: Engine
OEM Connector: 1-2296696-1
Service Connector: 19367009
Description: 4-Way F 1.2 MCON-CB Series, Sealed (BK)

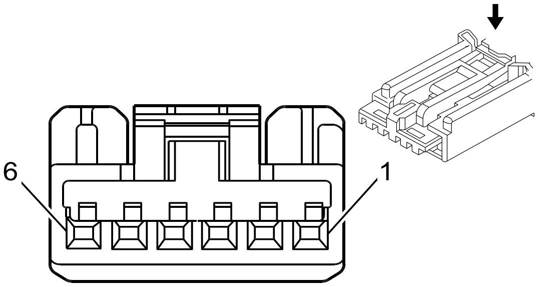
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-16 (LT GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

T8F Ignition Coil 6

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	1	BK	1550	Ground	I	—
2	0.5	BK/GY	2130	Ignition Control Low Reference Bank 2	I	—
3	0.5	BN/L-BU	2126	Ignition Control 6	I	—
4	1	VT/L-BU	5292	Powertrain Main Relay Fused Supply 3	I	—

T22 Mobile Device Wireless Charger Module



1974968

Connector Part Information

Harness Type: Floor Console
OEM Connector: AIT2PB-06-1FS
Service Connector: Service by Harness - See Part Catalog
Description: 6-Way F 0.64 Series (NA)

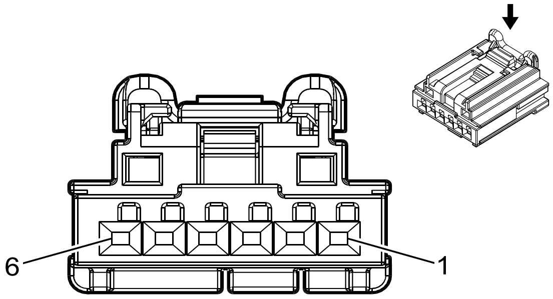
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-64B (LT BU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

T22 Mobile Device Wireless Charger Module

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	VT	4601	Retained Accessory Power Fused Control	I	—
2	0.5	BK	2050	Ground	I	—
3	0.35	L-GN	4512	Wireless Charging System Charge Indicator Control	I	—
4	0.35	BN	4511	Wireless Charging System Fault Indicator Control	I	—
5 - 6	—	—	—	Not Occupied	—	—

T22 Mobile Device Wireless Charger Module



3960313

Connector Part Information

Harness Type: Floor Console
OEM Connector: 2035363-4
Service Connector: Service by Harness - See Part Catalog
Description: 6-Way F 0.64 Generation Y Series (BK)

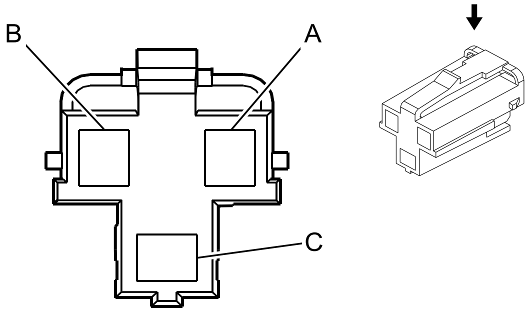
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-64B (LT BU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

T22 Mobile Device Wireless Charger Module

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	VT	4601	Retained Accessory Power Fused Control	I	—
2	0.5	BK	2050	Ground	I	—
3	0.35	GN	4512	Wireless Charging System Charge Indicator Control	I	—
4	0.35	BN	4511	Wireless Charging System Fault Indicator Control	I	—
5 - 6	—	—	—	Not Occupied	—	—

X80A Accessory Power Receptacle - Center Console 1 (MYB/M5T)



362748

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 12176836
Service Connector: -
Description: 3-Way F 280 Metri-Pack Series (GY)

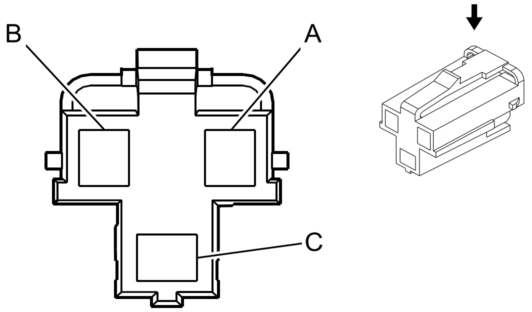
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-4A (PU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

X80A Accessory Power Receptacle - Center Console 1 (MYB/M5T)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	1.5	VT	1701	Retained Accessory Power Ignition	I	—
B	—	—	—	Not Occupied	—	—
C	1.5	BK	2050	Ground	I	—

X80B Accessory Power Receptacle - Center Console 2



362748

Connector Part Information

Harness Type: Floor Console
OEM Connector: 12176836
Service Connector: Service by Harness - See Part Catalog
Description: 3-Way F 280 Metri-Pack Series (GY)

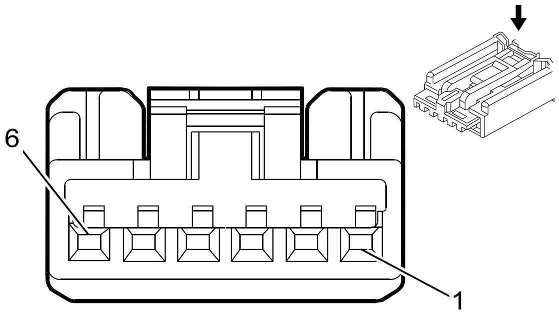
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-4A (PU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

X80B Accessory Power Receptacle - Center Console 2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	1.5	VT	2101	Retained Accessory Power Fuse Ignition	I	—
B	—	—	—	Not Occupied	—	—
C	1.5	BK	2050	Ground	I	—

X83 Auxiliary Audio Input X1



1862240

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: AIT2PB-06-1AK
Service Connector: 19167753
Description: 6-Way F 0.64 Kaizen Series (BK)

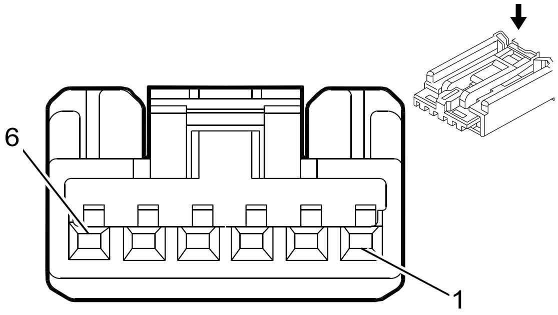
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-64B (LT BU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

X83 Auxiliary Audio Input X1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1 - 3	—	—	—	Not Occupied	—	—
4	0.35	BK/WH	2051	Signal Ground	I	—
5	—	—	—	Not Occupied	—	—
6	0.5	RD/VT	340	Battery Positive Voltage	I	—

X83 Auxiliary Audio Input X1



1862240

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 15269798
Service Connector: 19367517
Description: 6-Way F 0.64 Kaizen Series (BK)

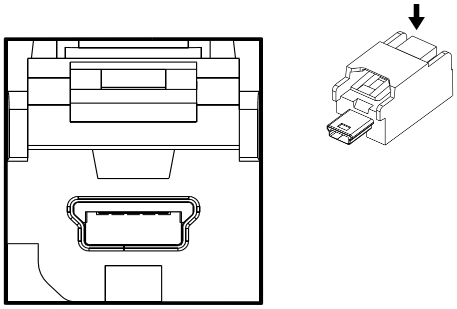
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-64B (LT BU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

X83 Auxiliary Audio Input X1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1 - 3	—	—	—	Not Occupied	—	—
4	0.35	BK/WH	2051	Signal Ground	I	—
5	—	—	—	Not Occupied	—	—
6	0.5	RD/VT	340	Battery Positive Voltage	I	—

X83 Auxiliary Audio Input X2



3214018

Connector Part Information

Harness Type: Instrument Panel USB
OEM Connector: 13584747
Service Connector: Service by Cable Assembly — See Part Catalog
Description: 5-Way M 2.0 Mini-B USB Type (GY)

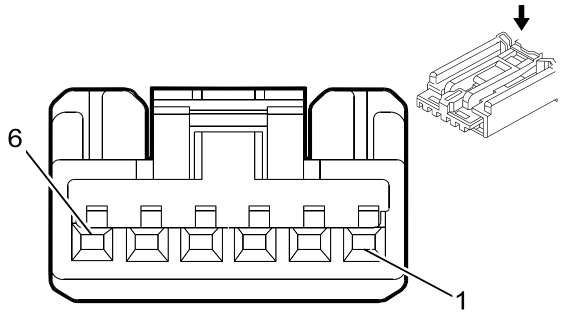
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	No Tool Required	No Tool Required	Not Required	Not Required	Not Required	Not Required

X83 Auxiliary Audio Input X2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
—	—	USB	—	USB Serial Data	I	—

X83R Auxiliary Audio Input - Rear X1



1862240

Connector Part Information

Harness Type: Floor Console
OEM Connector: AIT2PB-06-1AK
Service Connector: Service by Harness - See Part Catalog
Description: 6-Way F 0.64 Kaizen Series (BK)

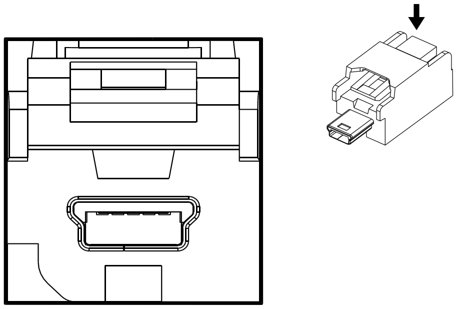
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-64B (LT BU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

X83R Auxiliary Audio Input - Rear X1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1 - 3	—	—	—	Not Occupied	—	—
4	0.35	BK/WH	2051	Signal Ground	I	—
5	—	—	—	Not Occupied	—	—
6	0.5	RD/VT	340	Battery Positive Voltage	I	—

X83R Auxiliary Audio Input - Rear X2



3214018

Connector Part Information

Harness Type: Floor Console USB
OEM Connector: 13584747
Service Connector: Service by Cable Assembly — See Part Catalog
Description: 5-Way M 2.0 Mini-B USB Type (GY)

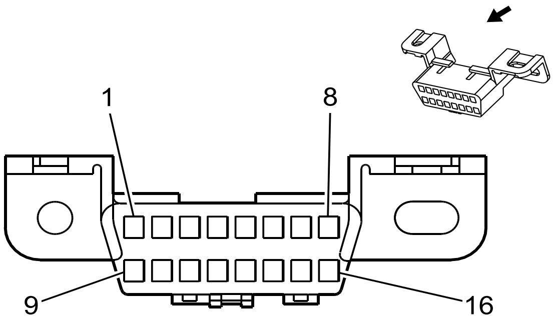
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	No Tool Required	No Tool Required	Not Required	Not Required	Not Required	Not Required

X83R Auxiliary Audio Input - Rear X2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
—	—	USB	—	USB Serial Data	I	—

X84 Data Link Connector



68793

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 12110250
Service Connector: 12110250
Description: 16-Way F 150 Metri-Pack Series (BK)

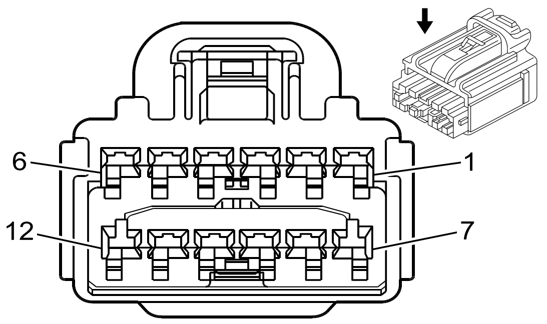
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13575724	J-35616-14 (GN)	J-38125-12A	12129484	Delphi 19	E	C
II	13580059	J-35616-14 (GN)	J-38125-12A	12129484	Delphi 19	E	A
III	13580059	J-35616-14 (GN)	J-38125-12A	12129484	Delphi 19	E	C

X84 Data Link Connector

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	L-GN	5060	Low Speed GMLAN Serial Data	III	—
2 - 3	—	—	—	Not Occupied	—	—
4	0.5	BK	2050	Ground	III	—
5	0.75	BK/WH	2151	Signal Ground	II	—
6	0.35	L-BU	2500	High Speed GMLAN Serial Data (+) 1	I	—
7 - 11	—	—	—	Not Occupied	—	—
12	0.5	L-BU/YE	6105	High Speed GMLAN Serial Data (+) 2	III	—
13	0.5	WH	6106	High Speed GMLAN Serial Data (-) 2	III	—
14	0.35	WH	2501	High Speed GMLAN Serial Data (-) 1	I	—
15	—	—	—	Not Occupied	—	—
16	0.5	RD/WH	640	Battery Positive Voltage	III	—

X85 Steering Wheel Air Bag Coil X1



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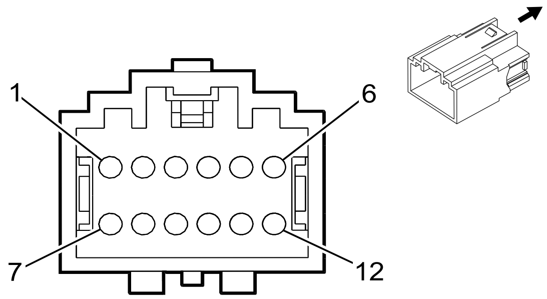


3240100

Connector Part Information

Harness Type: Right Rear Door
OEM Connector: 7283-3442-40
Service Connector: Service by Harness - See Part Catalog
Description: 12-Way F YESC Kaizen Series (L-GY)

Connector Part Information

Harness Type: Body
OEM Connector: 7282-3442-40
Service Connector: 88988266
Description: 12-Way M 1.5 Series (L-GY)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-2A (GY)	No Tool Required	Not Required	Not Required	Not Required	Not Required
II	13575818	J-35616-3 (GY)	J-38125-553	Not Available	Not Available	Not Available	Not Available
III	19329753	J-35616-3 (GY)	J-38125-12A	Not Available	Not Available	Not Available	Not Available

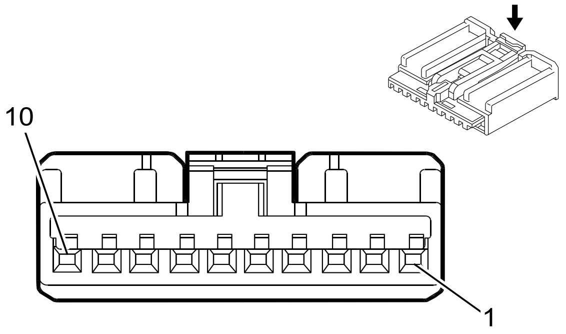
X85 Steering Wheel Air Bag Coil X1

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	—	—	—	—	—	Not Occupied	1	—	—	—	—	—
2	0.5	OG/BN	3479	I	—	Passenger Seat Belt Anchor Pretensioner High Control	2	0.35	OG/BN	3479	III	—
3	0.5	OG/L-GN	3475	I	—	Passenger Seat Belt Retractor Pretensioner High Control	3	0.35	OG/L-GN	3475	III	—
4	1	L-BU/BK	115	I	—	Right Rear Speaker Signal (-)	4	1	L-BU/BK	115	II	—
5	0.35	GY	748	I	—	Right Rear Door Ajar Switch Signal	5	0.35	GY	748	II	—
6 - 7	—	—	—	—	—	Not Occupied	6 - 7	—	—	—	—	—

X85 Steering Wheel Air Bag Coil X1 (cont'd)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
8	0.5	GY/ OG	3480	I	—	Passenger Seat Belt Anchor Pretensioner Low Control	8	0.35	GY/ OG	3480	III	—
9	0.5	WH/ OG	3476	I	—	Passenger Seat Belt Retractor Pretensioner Low Control	9	0.35	WH/ OG	3476	III	—
10	1	WH	46	I	—	Right Rear Speaker Control (+)	10	1	WH	46	II	—
11	0.35	BK	3450	I	—	Ground	11	0.5	BK	3450	II	—
12	—	—	—	—	—	Not Occupied	12	—	—	—	—	—

X85 Steering Wheel Air Bag Coil X2



1862241

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: AIT2PB-10-1AK
Service Connector: 13576634
Description: 10-Way F 0.64 Kaizen Series (BK)

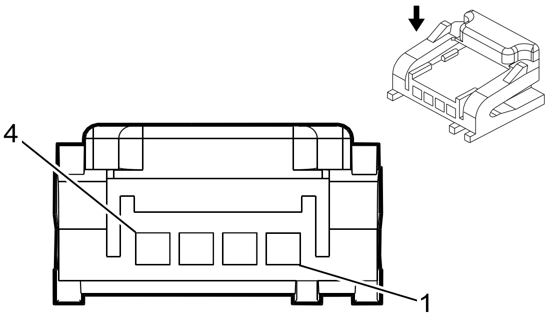
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13575742	J-35616-64B (LT BU)	J-38125-215A	SAIT-A03T-M064	Yazaki 14	P	P
II	13575867	J-35616-64B (LT BU)	J-38125-215A	SAIT-A03T-M064	Yazaki 14	P	P

X85 Steering Wheel Air Bag Coil X2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	L-GN/WH	3287	Horn Switch Signal	II	—
2	0.5	BK	2050	Ground	I	—
3	0.35	BN/L-GN	1884	Cruise Control Set/Coast/Resume/Accelerate Switch Signal	II	—
4	0.35	L-GN	6818	Steering Wheel Resistor Ladder Signal 1	II	—
5	0.35	WH/RD	1444	12V Reference	II	—
6	0.35	BN	6136	Control	II	—
7	0.35	GY/L-GN	5737	Adaptive Cruise Control Gap Up/Down Switch Signal	II	—
8	—	—	—	Not Occupied	—	—
9	0.5	L-GN/BK	3894	Local Interconnect Network Serial Data Bus 12	I	—
10	0.35	RD/YE	3040	Battery Positive Voltage	II	—

X85 Steering Wheel Air Bag Coil X3



1399226

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 15393421
Service Connector: 13580115
Description: 4-Way F 0.64 Micro-Pack Series (YE)

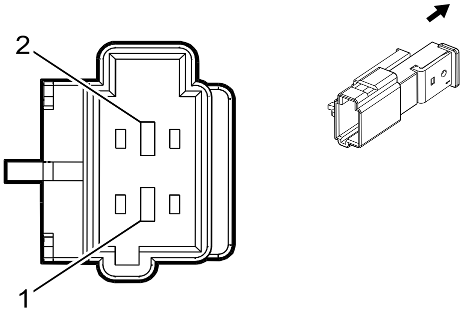
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-64B (LT BU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

X85 Steering Wheel Air Bag Coil X3

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	WH/OG	3020	Steering Wheel Module Stage 1 Low Control	I	—
2	0.35	OG/L-GN	3021	Steering Wheel Module Stage 1 High Control	I	—
3	0.35	BN/OG	3022	Steering Wheel Module Stage 2 Low Control	I	—
4	0.35	OG/VT	3023	Steering Wheel Module Stage 2 High Control	I	—

X85 Steering Wheel Air Bag Coil X4



2339581

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 1563190-1
Service Connector: 13574780
Description: 2-Way M 1.6 Timer Series (BK)

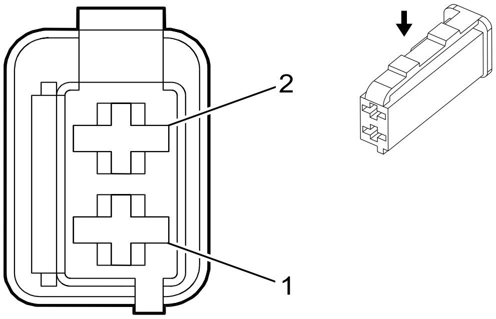
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-34 (YE)	No Tool Required	Not Required	Not Required	Not Required	Not Required

X85 Steering Wheel Air Bag Coil X4

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	VT/WH	1139	Run/Crank Ignition 1 Voltage	I	—
2	0.5	BK	2050	Ground	I	—

X85 Steering Wheel Air Bag Coil X5 (UVD)



2339593

Connector Part Information

Harness Type: Steering Wheel
OEM Connector: 19179871
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way F 1.6 Timer Series (BK)

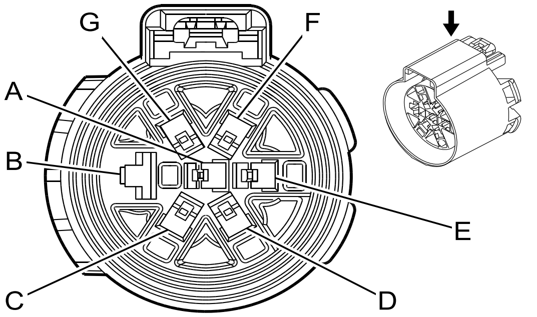
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	No Tool Required	No Tool Required	Not Required	Not Required	Not Required	Not Required

X85 Steering Wheel Air Bag Coil X5 (UVD)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.75	VT/WH	1139	Run/Crank Ignition 1 Voltage	I	—
2	0.75	BK	2050	Ground	I	—

X88 Trailer Connector



2056936

Connector Part Information

Harness Type: Chassis
OEM Connector: 13857223
Service Connector: 13583927
Description: 7-Way F 280, 630 Metri-Pack Series, Sealed (BK)

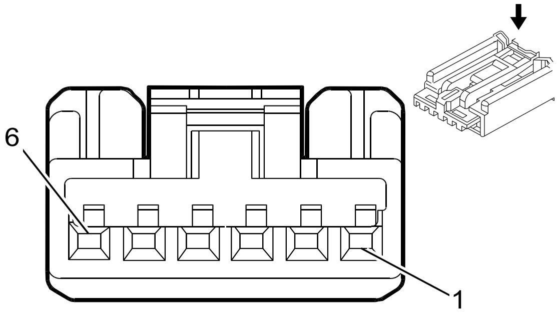
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-42 (RD)	No Tool Required	Not Required	Not Required	Not Required	Not Required
II	Not Required	J-35616-4A (PU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

X88 Trailer Connector

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.75	GY	1624	Trailer Backup Lamp Control	II	—
B	6	BK	22	Trailer Ground	I	—
C	2.5	L-BU	47	Trailer Auxiliary Control	II	—
D	0.75	L-GN	1619	Right Rear Trailer Stop/Turn Lamp Control	II	—
E	4	OG	742	Battery Positive Voltage	II	—
F	1.5	BN	2109	Trailer Park Lamp Control	II	—
G	0.75	YE	1618	Left Rear Trailer Stop/Turn Lamp Control	II	—

X92RA USB Receptacle - Rear Compartment



1862240

Connector Part Information

Harness Type: Floor Console
OEM Connector: AIT2PB-06-1AK
Service Connector: Service by Harness - See Part Catalog
Description: 6-Way F 0.64 Kaizen Series (BK)

Terminal Part Information

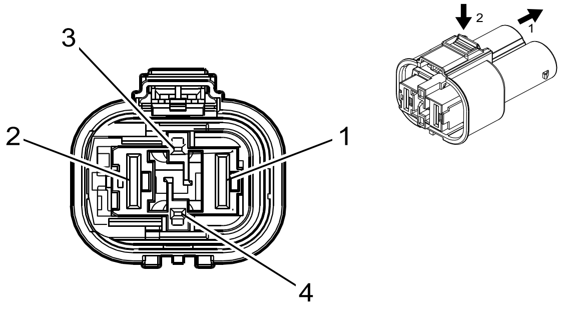
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-64B (LT BU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

X92RA USB Receptacle - Rear Compartment

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1 - 3	—	—	—	Not Occupied	—	—
4	0.5	BK/WH	2051	Signal Ground	I	—
5	—	—	—	Not Occupied	—	—
6	0.5	RD/VT	340	Battery Positive Voltage	I	—

Inline Harness Connector End Views

X100 Battery Cable Harness to Power Steering Harness



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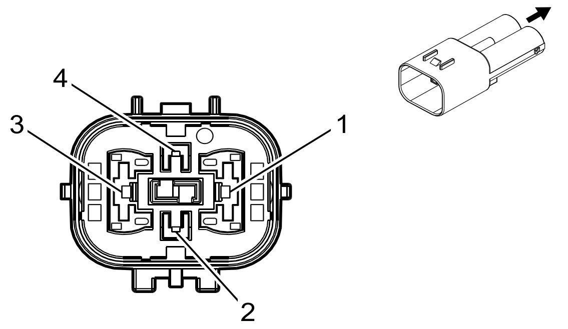


4694999

Connector Part Information

Harness Type: Battery Cable
OEM Connector: 13514495
Service Connector: Service by Harness - See Part Catalog
Description: 4-Way F 1.2, 9.5 MCON Series (BK)

Connector Part Information

Harness Type: Power Steering
OEM Connector: 5-2286733-1
Service Connector: Service by Harness - See Part Catalog
Description: 4-Way M 1.2, 9.5 MCON Series (BK)

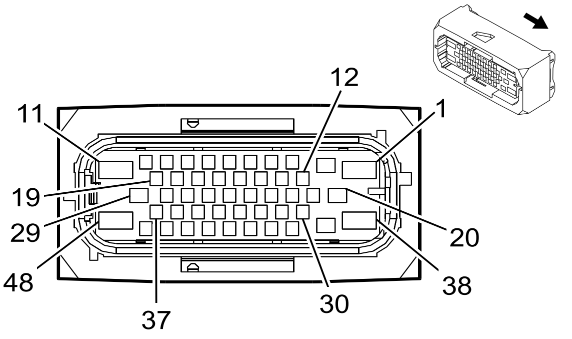
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	-	No Tool Required	Not Required	Not Required	Not Required	Not Required
II	Not Required	-	No Tool Required	Not Required	Not Required	Not Required	Not Required

X100 Battery Cable Harness to Power Steering Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	10	RD/ VT	842	I	—	Battery Positive Voltage	1	10	RD/ VT	842	II	—
2	10	BK	1050	I	—	Ground	2	10	BK	1050	II	—
3 - 4	—	—	—	—	—	Not Occupied	3 - 4	—	—	—	—	—

X101 Engine Harness to Body Harness



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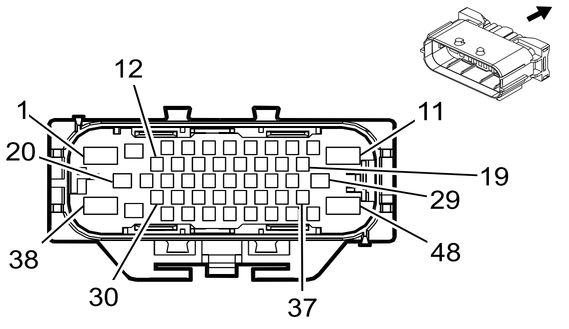


3924401

Connector Part Information

Harness Type: Engine

OEM Connector: 15509585

Service Connector: 19329744

Description: 48-Way F 1.5 MCP, 2.8 JPT, 6.3 MCP Series, Sealed (BK)

Connector Part Information

Harness Type: Body

OEM Connector: 15513438

Service Connector: 19356277

Description: 48-Way M 1.6, 2.8, 5.8 Series, Sealed (BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13578922	J-35616-4A (PU)	J-38125-36	Not Available	Not Available	Not Available	Not Available
II	13579914	J-35616-40 (BU)	J-38125-556	1241408-1	Lear 28	Not Available	Not Available
III	13579915	J-35616-40 (BU)	J-38125-556	1241408-1	Lear 28	A	B
IV	13579986	J-35616-4A (PU)	J-38125-36	Not Available	Not Available	Not Available	Not Available
V	13584458	J-35616-4A (PU)	J-38125-36	964280-2	Yazaki 15	Not Available	Not Available
VI	13584463	J-35616-35 (VT)	J-38125-36	Not Available	Not Available	Not Available	Not Available
VII	19329758	J-35616-14 (GN)	J-38125-215A	Not Available	Not Available	Not Available	Not Available
VIII	-	J-35616-14 (GN)	J-38125-215A	Not Available	Not Available	Not Available	Not Available
IX	13575574	J-35616-5 (PU)	J-38125-36	Not Available	Not Available	Not Available	Not Available
X	13579985	J-35616-3 (GY)	J-38125-560	Not Available	Not Available	Not Available	Not Available
XI	13582335	J-35616-3 (GY)	J-38125-560	Not Available	Not Available	Not Available	Not Available
XII	13584548	J-35616-5 (PU)	J-38125-36	Not Available	Not Available	Not Available	Not Available
XIII	-	J-35616-32 (OR)	J-38125-36	Not Available	Not Available	Not Available	Not Available
XIV	-	J-35616-43 (RD)	J-38125-36	Not Available	Not Available	Not Available	Not Available

X101 Engine Harness to Body Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	2.5	YE/ VT	1553	III	—	Transfer Case Motor Counter Clockwise Control	1	2.5	YE/ VT	1553	XIV	—
2	0.75	VT/ GY	139	I	—	Run/Crank Ignition 1 Voltage	2	0.75	VT/ GY	139	XII	—
3	0.75	VT/ GY	139	VIII	—	Run/Crank Ignition 1 Voltage	3	0.75	VT/ GY	139	XI	—
4	0.5	WH/ L-GN	7475	VIII	—	Incremental Encoder Sensor 8V Reference	4	0.5	WH/ L-GN	7475	XI	—
5	0.5	WH/ L-BU	6311	VIII	—	Cruise/ETC/ TCC Brake Signal	5	0.5	WH/ L-BU	6311	XI	—
6	0.5	BK/ VT	1272	VII	—	Accelerator Pedal Position Low Reference 2	6	0.5	BK/ VT	1272	X	—
7	0.5	BN/ WH	419	VIII	—	Check Engine Indicator Control	7	0.5	BN/ WH	419	XI	—
8	0.5	BN/ RD	1274	VII	—	Accelerator Pedal Position 5V Reference 2	8	0.5	BN/ RD	1274	X	—
9	0.5	YE	7474	VIII	—	Incremental Encoder Direction Signal	9	0.5	YE	7474	XI	—
10	0.75	L-BU/ BN	7573	VIII	—	Electric Variable Displacement Supply	10	0.5	L-BU/ BN	7573	XI	—
11	0.75	BK	1450	II	—	Ground	11	0.75	BK	1450	XIII	—
12	0.5	BK	1782	VIII	—	Low Reference	12	0.5	BK	1782	XI	—
13	0.5	L-GN/ GY	465	VIII	—	Fuel Pump Primary Relay Control	13	0.5	L-GN/ GY	465	XI	—
14	0.5	WH/ BK	2366	VIII	—	Cooling Fan Control Relay Speed Signal	14	0.5	WH/ BK	2366	XI	—
15	0.5	L-BU/ WH	890	VIII	—	Fuel Tank Pressure Sensor Signal	15	0.5	L-BU/ WH	890	XI	—
16	0.5	YE/ RD	2709	VIII	—	Fuel Tank Pressure Sensor 5V Reference	16	0.5	YE/ RD	2709	XI	—
17	0.5	BK/L-GN	6281	VIII	—	Fuel Level Sensor Low Reference	17	0.5	BK/L-GN	6281	XI	—

X101 Engine Harness to Body Harness (cont'd)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
18	0.5	L-BU/VT	1589	VIII	—	Primary Fuel Level Sensor Signal	18	0.5	L-BU/VT	1589	XI	—
19	0.75	L-BU/YE	7574	VIII	—	Electric Variable Displacement Control	19	0.5	L-BU/YE	7574	XI	—
20	2.5 2.5	YE/BN YE/BN	1569 1569	IV V	LGZ LWN	Transfer Case Lock Solenoid Control Transfer Case Lock Solenoid Control	20	2.5	YE/BN	1569	IX	—
21	0.5 0.5	BK/YE L-GN/BN	7447 507	VIII VIII	LGZ LWN	Fuel Line Pressure Sensor Low Reference Wait To Start Indicator Control	21	0.5 0.5	BK/YE L-GN/BN	7447 507	XI XI	LGZ LWN
22	0.5	L-BU/GY	7473	VIII	—	Incremental Encoder Impulse Signal	22	0.5	L-BU/GY	7473	XI	—
23	0.5	L-GN/WH	1162	VII	—	Accelerator Pedal Position Signal 2	23	0.5	L-GN/WH	1162	X	—
24	0.5	BK/L-BU	1271	VII	—	Accelerator Pedal Position Low Reference 1	24	0.5	BK/L-BU	1271	X	—
25	0.5	WH/RD	1164	VII	—	Accelerator Pedal Position 5V Reference 1	25	0.5	WH/RD	1164	X	—
26	0.5	WH	1310	VIII	—	EVAP Canister Vent Solenoid Control	26	0.5	WH	1310	XI	—
27	0.5	WH/RD	7477	VIII	—	Rotary Position Sensor 5V Reference	27	0.5	WH/RD	7477	XI	—
28	0.5 0.5	BN WH/L-GN	6305 7479	VIII VIII	LGZ NQ6+ (LCV/LWN)	Brake Vacuum Switch Signal Rotary Position Sensor Signal	28	0.5 0.5	BN WH/L-GN	6305 7479	XI XI	LGZ NQ6+ (LCV/LWN)
29	2.5 0.5	BN/VT YE/BK	1470 7478	IV VI	LGZ NQ6+ (LCV/LWN)	Brake Booster Pump Motor Control Rotary Position Sensor Low Reference	29	2.5 0.5	BN/VT YE/BK	1470 7478	IX XII	LGZ NQ6+ (LCV/LWN)

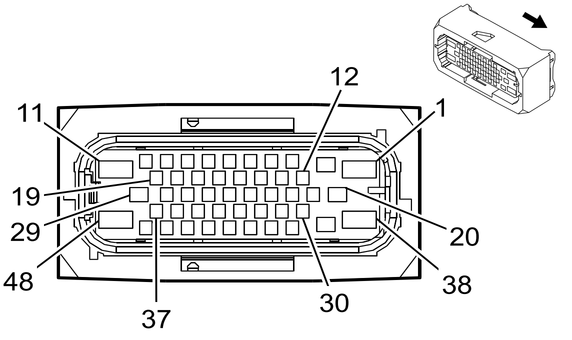
X101 Engine Harness to Body Harness (cont'd)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
30	0.5	BK/L-BU	61	VIII	—	Outside Ambient Temperature Sensor Low Reference	30	0.5	BK/L-BU	61	XI	—
31	0.5	L-BU/GY	636	VIII	—	Outside Ambient Air Temperature Sensor Signal	31	0.5	L-BU/GY	636	XI	—
32	0.5	YE/WH	1161	VII	—	Accelerator Pedal Position Signal 1	32	0.5	YE/WH	1161	X	—
33	0.5 0.5	BK/YE BK/GY	5382 6110	VIII VIII	MYB N8D	Brake Position Sensor Low Reference Clutch Apply Sensor Low Reference	33	0.5 0.5	BK/YE BK/GY	5382 6110	XI XI	MYB N8D
34	0.5 0.5	WH/L-GN YE	5380 6111	VIII VIII	MYB N8D	Brake Position Sensor Signal Clutch Apply Sensor Signal	34	0.5 0.5	WH/L-GN YE	5380 6111	XI XI	MYB N8D
35	0.5 0.5	WH/RD GY/RD	5381 6109	VIII VIII	MYB N8D	Brake Position Sensor 5V Reference Clutch Apply Sensor 5V Reference	35	0.5 0.5	WH/RD GY/RD	5381 6109	XI XI	MYB N8D
36	0.5 0.5	L-BU/BK L-BU/YE	7493 7493	VIII VIII	LCV LGZ	High Speed GMLAN Serial Data (+)3 High Speed GMLAN Serial Data (+)3	36	0.5	L-BU/BK	7493	XI	—
37	0.5	WH	7494	VIII	—	High Speed GMLAN Serial Data (-)3	37	0.5	WH	7494	XI	—
38	2.5	YE/GY	1552	III	—	Transfer Case Motor Clockwise Control	38	2.5	YE/GY	1552	XIV	—
39	2.5 2.5	RD/GY RD/GY	1342 1342	IV V	NQ6 NQ7	Battery Positive Voltage Battery Positive Voltage	39	2.5	RD/GY	1342	IX	—
40	0.5	BK/L-BU	6813	VIII	—	Coolant Temperature Sensor 2 Low Reference	40	0.5	BK/L-BU	6813	XI	—

X101 Engine Harness to Body Harness (cont'd)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
41	0.5 0.5	YE/BK L-BU/BK	3000 7116	VIII VIII	LCV LWN	Coolant Temperature Sensor 2 Signal Front Axle Differential Lock Control	41	0.5 0.5	YE/BK L-BU/BK	3000 7116	XI XI	LCV LWN
42	0.5	VT/YE	5985	VIII	—	Accessory Wakeup Serial Data	42	0.5	VT/YE	5985	XI	—
43	0.5	VT	7476	VIII	—	Incremental Encoder Sensor Low Reference	43	0.5	VT	7476	XI	—
44	0.5	L-BU/WH	7446	VIII	—	Fuel Line Pressure Sensor Signal	44	0.5	L-BU/WH	7446	XI	—
45	0.5	GY	3890	VIII	—	Aero Shutter Control 2	45	0.5	GY	3890	XI	—
46	0.5	L-BU	2500	VIII	—	High Speed GMLAN Serial Data (+) 1	46	0.5	L-BU	2500	XI	—
47	0.5	WH	2501	VIII	—	High Speed GMLAN Serial Data (-) 1	47	0.5	WH	2501	XI	—
48	0.5	BN/RD	7445	II	—	Fuel Line Pressure Sensor 5V Reference	48	0.5	BN/RD	7445	XIII	—

X102 Forward Lamp Harness to Body Harness



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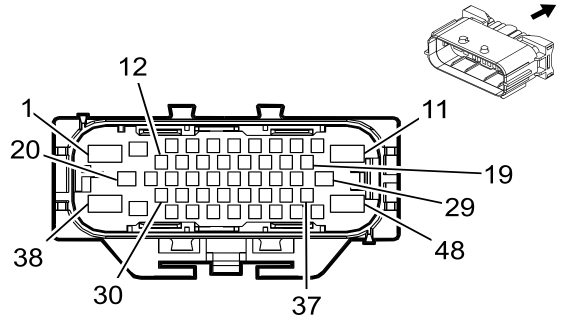


3240126

Connector Part Information

Harness Type: Forward Lamp
OEM Connector: 15509588
Service Connector: 19356278
Description: 48-Way F 1.5 MCP, 2.8 JPT, 6.3 MCP Series, Sealed (YE)

Connector Part Information

Harness Type: Body
OEM Connector: 15513436
Service Connector: 19301796
Description: 48-Way M 1.6, 2.8, 5.8 Series, Sealed (BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I		J-35616-14 (GN)	J-3125-560	Not Available	Not Available	Not Available	Not Available
II	13578922	J-35616-4A (PU)	J-38125-36	Not Available	Not Available	Not Available	Not Available
III	13579915	J-35616-40 (BU)	J-38125-556	1241408-1	Lear 28	A	B
IV	13579915	J-35616-40 (BU)	J-38125-556	1241408-1	Lear 28	C	A
V	19329758	J-35616-14 (GN)	J-38125-215A	Not Available	Not Available	Not Available	Not Available
VI	-	J-35616-14 (GN)	J-3125-560	Not Available	Not Available	Not Available	Not Available
VII	-	J-35616-14 (GN)	J-38125-215A	Not Available	Not Available	Not Available	Not Available
VIII	13327188	J-35616-3 (GY)	J-38125-560	Not Available	Not Available	Not Available	Not Available
IX	13327190	J-35616-3 (GY)	J-38125-560	Not Available	Not Available	Not Available	Not Available
X	13579985	J-35616-3 (GY)	J-38125-560	Not Available	Not Available	Not Available	Not Available
XI	13580836	J-35616-3 (GY)	J-38125-560	Not Available	Not Available	Not Available	Not Available
XII	13582335	J-35616-3 (GY)	J-38125-560	Not Available	Not Available	Not Available	Not Available
XIII	13584548	J-35616-5 (PU)	J-38125-36	Not Available	Not Available	Not Available	Not Available
XIV	-	J-35616-43 (RD)	J-38125-36	Not Available	Not Available	Not Available	Not Available

X102 Forward Lamp Harness to Body Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	2.5	BN/VT	1470	III	—	Brake Booster Pump Motor Control	1	2.5	BN/VT	1470	XIV	—
2	—	—	—	—	—	Not Occupied	2	—	—	—	—	—
3	0.75	WH/VT	1430	VII	—	Exterior Courtesy Lamp Control	3	0.75	WH/VT	1430	XII	—
4 - 5	—	—	—	—	—	Not Occupied	4 - 5	—	—	—	—	—
6	0.75	VT/GY	709	VII	—	Left Park Lamp Control	6	0.5	VT/GY	709	XII	—
7	—	—	—	—	—	Not Occupied	7	—	—	—	—	—
8	0.75	GY/BN	309	VII	—	Right Park Lamp Control	8	0.5	GY/BN	309	XII	—
9	—	—	—	—	—	Not Occupied	9	—	—	—	—	—
10	1.5	WH	92	I	—	Windshield Wiper Motor High Speed Control Windshield Wiper Motor High Speed Control	10	1.5 1.5	WH WH	92 92	XIV XI	— —
11	1.5	YE/BN	95	IV	—	Windshield Wiper Motor Low Speed Control	11	1.5	YE/BN	95	XIV	—
12	—	—	—	—	—	Not Occupied	12	—	—	—	—	—
13	0.5	OG/YE	354	V	—	Left Front Discriminating Sensor Signal	13	0.5	OG/YE	354	X	—
14	0.5	BK/OG	5045	V	—	Left Front Discriminating Sensor Low Reference	14	0.5	BK/OG	5045	X	—
15	0.5	BN/GN	109	VII	—	Hood Ajar Switch Signal	15	0.5	BN/GN	4064	XII	—
16	—	—	—	—	—	Not Occupied	16	—	—	—	—	—
17	0.35	VT/GY	1054	VI	—	Stop Lamp Control	17	0.35 0.35	VT/GY VT/GY	1054 1054	VIII IX	— —
18	—	—	—	—	—	Not Occupied	18	—	—	—	—	—
19	1.5	YE	312	I	—	Right Headlamp Low Beam Control	19	1.5	YE	312	XI	—

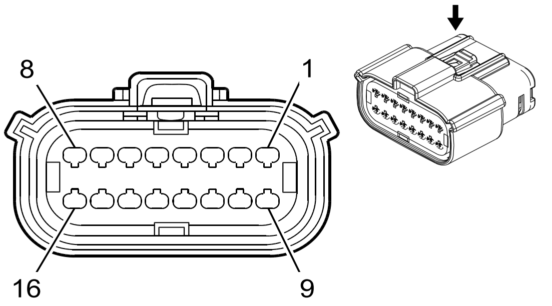
X102 Forward Lamp Harness to Body Harness (cont'd)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
20	—	—	—	—	—	Not Occupied	20	—	—	—	—	—
21	0.5	OG/ GN	1409	V	—	Right Front Discriminating Sensor Signal	21	0.5	OG/ GN	1409	X	—
22	0.5	BK/ OG	5600	V	—	Right Front Discriminating Sensor Low Reference	22	0.5	BK/ OG	5600	X	—
23	—	—	—	—	—	Not Occupied	23	—	—	—	—	—
24	0.5	WH/ BK	2366	VII	—	Cooling Fan Control Relay Speed Signal	24	0.5	WH/ BK	2366	XII	—
25	0.5	VT	185	VII	—	Low Washer Fluid Indicator Control	25	0.35	VT	185	VIII	—
26	0.5	BU/ GY	636	VII	—	Outside Ambient Air Temperature Sensor Signal	26	0.5	BU/ GY	636	XII	—
27	0.5	BK/ BU	61	VII	—	Outside Ambient Temperature Sensor Low Reference	27	0.5	BK/ BU	61	XII	—
28	—	—	—	—	—	Not Occupied	28	—	—	—	—	—
29	0.75	GN/ VT	1315	II	—	Right Front Turn Signal Lamp Control	29	0.75	GN/ VT	1315	XIII	—
30 - 34	—	—	—	—	—	Not Occupied	30 - 34	—	—	—	—	—
35	0.5	GY	3890	VII	—	Aero Shutter Control 2	35	0.5	GY	3890	XII	—
36	—	—	—	—	—	Not Occupied	36	—	—	—	—	—
37	1.5	YE	712	I	—	Left Headlamp Low Beam Control	37	1.5	YE	712	XI	—
38	1.5	BK	3150	IV	—	Ground	38	1.5	BK	3150	XIV	—
39	—	—	—	—	—	Not Occupied	39	—	—	—	—	—
40	1	VT/ WH	7256	VI	—	Front Differential Lock Actuator Supply Voltage	40	1	VT/ WH	7256	X	—

X102 Forward Lamp Harness to Body Harness (cont'd)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
41	1	VT/BN	7258	VI	—	Rear Differential Lock Actuator Supply Voltage	41	1	VT/BN	7258	X	—
42 - 43	—	—	—	—	—	Not Occupied	42 - 43	—	—	—	—	—
44	0.5 0.5 0.5	YE/BK BU/WH BU/WH	3000 7120 7120	VII VII V	— — —	Coolant Temperature Sensor 2 Signal Rear Axle Differential Lock Control Rear Axle Differential Lock Control	44	0.5 0.5	YE/BK BU/WH	3000 7120	XII XII	— —
45	0.5	BK/BU	6813	VII	—	Coolant Temperature Sensor 2 Low Reference	45	0.5	BK/BU	6813	XII	—
46	—	—	—	—	—	Not Occupied	46	—	—	—	—	—
47	0.75	BU/WH	1314	VII	—	Left Front Turn Signal Lamp Control	47	0.75	BU/WH	1314	XII	—
48	1.5	BN	2109	IV	—	Trailer Park Lamp Control	48	1.5	BN	2109	XIV	—

X103 Chassis Harness to Power Steering Harness



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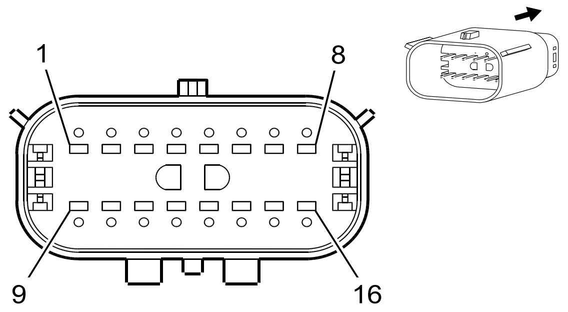


2548390

Connector Part Information

Harness Type: Chassis
OEM Connector: 33472-1606
Service Connector: 13584788
Description: 16-Way F 150 MX Series, Sealed (BK)

Connector Part Information

Harness Type: Power Steering
OEM Connector: 33482-8601
Service Connector: Service by Harness - See Part Catalog
Description: 16-Way M 150 MX Series, Sealed (BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13575808	J-35616-2A (GY)	J-38125-217	Not Available	Not Available	Not Available	Not Available
II	19300635	J-35616-2A (GY)	J-38125-217	Not Available	Not Available	Not Available	Not Available
III	Not Required	J-35616-3 (GY)	No Tool Required	Not Required	Not Required	Not Required	Not Required

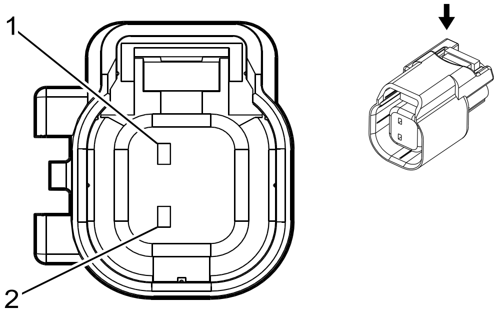
X103 Chassis Harness to Power Steering Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	0.75	VT/BK	2139	I	—	Run/Crank Ignition 1 Voltage	1	0.75	VT/BK	2139	III	—
2	0.5	WH	2501	II	—	High Speed GMLAN Serial Data (-) 1	2	0.5	WH	2501	III	—
3	0.5	L-BU	2500	II	—	High Speed GMLAN Serial Data (+) 1	3	0.5	L-BU	2500	III	—
4	0.5	WH	6106	II	—	High Speed GMLAN Serial Data (-) 2	4	0.5	WH	6106	III	—
5	0.5	L-BU/YE	6105	II	—	High Speed GMLAN Serial Data (+) 2	5	0.5	L-BU/YE	6105	III	—
6	0.5	GY/BK	1570	II	—	Front Axle Actuator Control	6	0.5	GY/BK	1570	III	—

X103 Chassis Harness to Power Steering Harness (cont'd)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
7	0.5	RD/ BN	5940	II	—	Battery Positive Voltage	7	0.5	RD/ BN	5940	III	—
8	0.5	WH/ L-BU	5986	II	—	Serial Data Communication Enable	8	0.5	WH/ L-BU	5986	III	—
9	0.5	WH	2501	II	—	High Speed GMLAN Serial Data (-) 1	9	0.5	WH	2501	III	—
10	0.5	L-BU	2500	II	—	High Speed GMLAN Serial Data (+) 1	10	0.5	L-BU	2500	III	—
11	0.5	WH	6106	II	—	High Speed GMLAN Serial Data (-) 2	11	0.5	WH	6106	III	—
12	0.5	L-BU/ YE	6105	II	—	High Speed GMLAN Serial Data (+) 2	12	0.5	L-BU/ YE	6105	III	—
13	0.75	BK	1450	I	—	Ground	13	0.75	BK	1450	III	—
14	0.5	YE/ WH	1695	II	—	Four Wheel Drive Wheel Lock Indicator Control	14	0.5	YE/ WH	1695	III	—
15	1	VT/ WH	7256	I	—	Front Differential Lock Actuator Supply Voltage	15	1	VT/ WH	7256	III	—
16	1	WH/ BK	7254	I	—	Front Differential Lock Actuator Low Control	16	1	WH/ BK	7254	III	—

X104 Forward Lamp Harness to Forward Lamp Extension Harness



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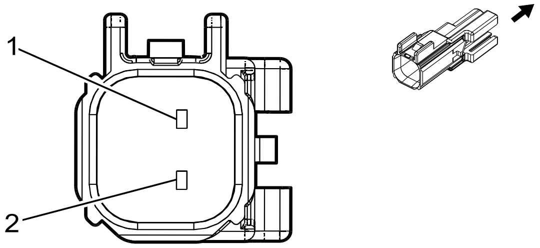


3271068

Connector Part Information

Harness Type: Forward Lamp
OEM Connector: 34062-0038
Service Connector: -
Description: 2-Way F 1.5 Series, Sealed (BK)

Connector Part Information

Harness Type: Forward Lamp Extension
OEM Connector: 34675-0001
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way M 1.5 Series, Sealed (BK)

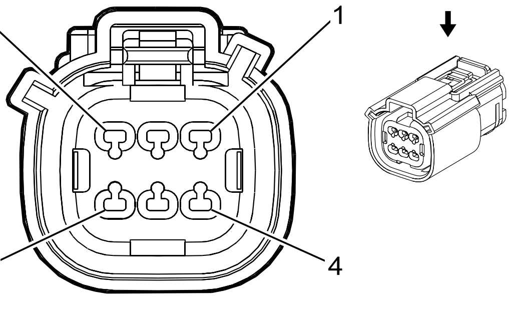
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-14 (GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required
II	Not Required	J-35616-3 (GY)	No Tool Required	Not Required	Not Required	Not Required	Not Required

X104 Forward Lamp Harness to Forward Lamp Extension Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	0.5	YE/BK	3000	I	—	Coolant Temperature Sensor 2 Signal	1	0.5	YE/BK	3000	II	—
2	0.5	BK/L-BU	6813	I	—	Coolant Temperature Sensor 2 Low Reference	2	0.5	BK/L-BU	6813	II	—

X105 Forward Lamp Harness to Ambient Temperature Sensor Extension Harness



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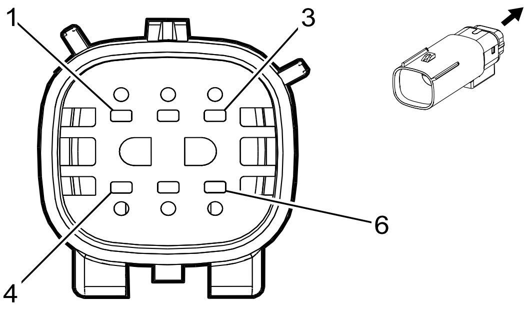


3225221

Connector Part Information

Harness Type: Forward Lamp
OEM Connector: 33472-0607
Service Connector: 19301527
Description: 6-Way F 150 MX Series, Sealed (GY)

Connector Part Information

Harness Type: Ambient Temperature Sensor Extension
OEM Connector: Not Available
Service Connector: Service by Harness - See Part Catalog
Description: 6-Way M

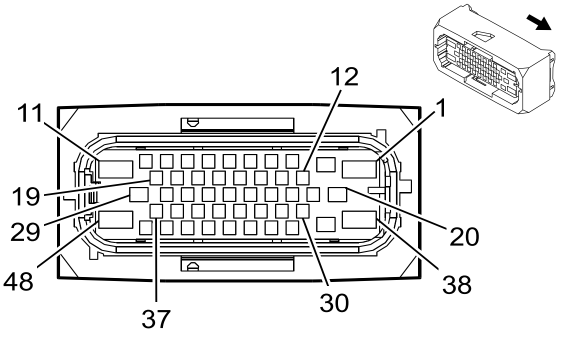
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-2A (GY)	No Tool Required	Not Required	Not Required	Not Required	Not Required
II	Not Required	J-35616-3 (GY)	No Tool Required	Not Required	Not Required	Not Required	Not Required

X105 Forward Lamp Harness to Ambient Temperature Sensor Extension Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	0.75	BK	1250	I	—	Ground	1	0.75	BK	1250	II	—
2	0.5	WH/VT	4333	I	—	Aero Shutter Actuator Control	2	0.5	WH/VT	4333	II	—
3	0.5	GY	3890	I	—	Aero Shutter Control 2	3	0.5	GY	3890	II	—
4	—	—	—	—	—	Not Occupied	4	—	—	—	—	—
5	0.5	L-BU/GY	636	I	—	Outside Ambient Air Temperature Sensor Signal	5	0.5	L-BU/GY	636	II	—
6	0.5	BK/L-BU	61	I	—	Outside Ambient Temperature Sensor Low Reference	6	0.5	BK/L-BU	61	II	—

X106 Body Harness to Chassis Harness



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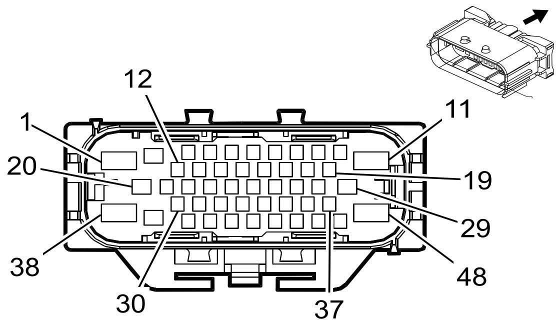


3240125

Connector Part Information

Harness Type: Body

OEM Connector: 15509587

Service Connector: 19119963

Description: 48-Way F 1.5 MCP, 2.8 JPT, 6.3 MCP Series, Sealed (GY)

Connector Part Information

Harness Type: Chassis

OEM Connector: 15513437

Service Connector: 13586850

Description: 48-Way M 1.6, 2.8, 5.8 Series, Sealed (GY)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I		J-35616-14 (GN)	J-3125-560	Not Available	Not Available	Not Available	Not Available
II	13579914	J-35616-40 (BU)	J-38125-556	1241408-1	Lear 28	Not Available	Not Available
III	13579915	J-35616-40 (BU)	J-38125-556	1241408-1	Lear 28	A	B
IV	13579921	J-35616-40 (BU)	J-38125-556	1241408-1	Lear 28	B	G
V	13584458	J-35616-4A (PU)	J-38125-36	964280-2	Yazaki 15	Not Available	Not Available
VI	-	J-35616-14 (GN)	J-38125-215A	Not Available	Not Available	Not Available	Not Available
VII	13575574	J-35616-5 (PU)	J-38125-36	Not Available	Not Available	Not Available	Not Available
VIII	13580836	J-35616-3 (GY)	J-38125-560	Not Available	Not Available	Not Available	Not Available
IX	13582335	J-35616-3 (GY)	J-38125-560	Not Available	Not Available	Not Available	Not Available
X	19368304	J-35616-43 (RD)	J-38125-557	Not Available	Not Available	Not Available	Not Available
XI	-	J-35616-32 (OR)	J-38125-36	Not Available	Not Available	Not Available	Not Available
XII	-	J-35616-43 (RD)	J-38125-36	Not Available	Not Available	Not Available	Not Available

X106 Body Harness to Chassis Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	4	RD/GY	1042	IV	—	Battery Positive Voltage	1	4	RD/GY	1042	X	—

X106 Body Harness to Chassis Harness (cont'd)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
2	2.5	RD/YE	442	V	—	Battery Positive Voltage	2	2.5	RD/YE	442	VII	—
3	0.75	GY	1624	VI	—	Trailer Backup Lamp Control	3	0.75	GY	1624	IX	—
4	0.75	L-GN	1619	VI	—	Right Rear Trailer Stop/ Turn Lamp Control	4	0.75	L-GN	1619	IX	—
5	0.75	YE	1618	VI	—	Left Rear Trailer Stop/ Turn Lamp Control	5	0.75	YE	1618	IX	—
6	0.5	BN/GY	2609	VI	—	Right Rear Park Lamp Control	6	1.5	BN/GY	2609	VIII	—
7	0.5	L-GN/WH	24	VI	—	Backup Lamp Control	7	0.5	L-GN/WH	24	IX	—
8	0.5	L-GN/YE	6846	VI	—	Rear License Lamp Control	8	0.5	L-GN/YE	6846	IX	—
9	0.5 0.5	VT/YE L-GN/BK	5985 7633	VI VI	LCV LWN	Accessory Wakeup Serial Data Integrated Trailer Brake Controller User Gain Signal	9	0.5 0.5	VT/YE L-GN/BK	5985 7633	IX IX	LCV LWN
10	0.75	VT/BK	2139	VI	—	Run/Crank Ignition 1 Voltage	10	0.75	VT/BK	2139	IX	—
11	0.75	BK	1450	II	—	Ground	11	0.75	BK	1450	XI	—
12	1.5	GY/YE	7542	I	—	Left Rear Stop Lamp Control	12	1.5	GY/YE	7542	VIII	—
13	0.5	VT/L-GN	1739	VI	—	Run/Crank Ignition 1 Voltage	13	0.5	VT/L-GN	1739	IX	—
14	0.5	BN/L-BU	2509	VI	—	Left Rear Park Lamp Control	14	1.5	BN/L-BU	2509	VIII	—
15	1.5	WH/YE	7541	I	—	Right Rear Stop Lamp Control	15	1.5	WH/YE	7541	VIII	—
16	0.75	VT/GY	139	VI	—	Run/Crank Ignition 1 Voltage	16	0.75	VT/GY	139	IX	—
17	0.75 0.5	VT/GY L-BU/RD	139 7632	VI VI	LCV LWN	Run/Crank Ignition 1 Voltage Integrated Trailer Brake Controller Switch 5V Reference	17	0.75 0.5	VT/GY L-BU/RD	139 7632	IX IX	LCV LWN

X106 Body Harness to Chassis Harness (cont'd)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
18	0.5	YE	7635	VI	—	Integrated Trailer Brake Controller Manual Apply Signal	18	0.5	YE	7635	IX	—
19	0.5	WH	2501	VI	—	High Speed GMLAN Serial Data (-) 1	19	0.5	WH	2501	IX	—
20	2.5	RD/VT	1940	V	—	Battery Positive Voltage	20	2.5	RD/VT	1940	VII	—
21	0.5	RD/BN	5940	VI	—	Battery Positive Voltage	21	0.5	RD/BN	5940	IX	—
22	0.5	BK/L-GN	6281	VI	—	Fuel Level Sensor Low Reference	22	0.5	BK/L-GN	6281	IX	—
23	0.5 0.5	L-BU/WH L-BU/VT	890 1589	VI VI	LCV LWN	Fuel Tank Pressure Sensor Signal Primary Fuel Level Sensor Signal	23	0.5 0.5	L-BU/WH L-BU/VT	890 1589	IX IX	LCV LWN
24	0.5 0.5	YE/RD RD/L-GN	2709 2440	VI VI	LCV LWN	Fuel Tank Pressure Sensor 5V Reference Battery Positive Voltage	24	0.5 0.5	YE/RD RD/L-GN	2709 2440	IX IX	LCV LWN
25	0.5 0.5 0.5	BK/L-GN BN BN	6281 6305 7634	VI VI VI	— LGZ LWN	Fuel Level Sensor Low Reference Brake Vacuum Switch Signal Integrated Trailer Brake Controller Redundant Manual Apply Signal	25	0.5 0.5 0.5	BK/L-GN BN BN	6281 6305 7634	IX IX IX	— LGZ LWN
26	0.5	WH/L-BU	5986	VI	—	Serial Data Communication Enable	26	0.5	WH/L-BU	5986	IX	—
27	0.5 0.5	L-GN/GY BK/BN	465 7631	VI VI	LCV LWN	Fuel Pump Primary Relay Control Integrated Trailer Brake Controller Switch Low Reference	27	0.5 0.5	L-GN/GY BK/BN	465 7631	IX IX	LCV LWN
28	0.5	L-BU	2500	VI	—	High Speed GMLAN Serial Data (+) 1	28	0.5	L-BU	2500	IX	—

X106 Body Harness to Chassis Harness (cont'd)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
29	2.5	RD/L-GN	242	V	—	Battery Positive Voltage	29	2.5	RD/L-GN	242	VII	—
30	0.5	GY/BK	1570	VI	—	Front Axle Actuator Control	30	0.5	GY/BK	1570	IX	—
31	0.5	YE/WH	1695	VI	—	Four Wheel Drive Wheel Lock Indicator Control	31	0.5	YE/WH	1695	IX	—
32	0.5 0.5	L-BU/VT VT/BK	1589 7121	VI VI	— —	Primary Fuel Level Sensor Signal Rear Axle Differential Lock Low Reference	32	0.5 0.5	L-BU/VT VT/BK	1589 7121	IX IX	— —
33	0.5 0.5	RD/L-GN VT/YE	2440 5985	VI VI	— —	Battery Positive Voltage Accessory Wakeup Serial Data	33	0.5 0.5	RD/L-GN VT/YE	2440 5985	IX IX	— —
34	0.5 0.5 0.75	WH L-BU/WH BN/WH	1310 7120 2374	VI VI VI	— — —	EVAP Canister Vent Solenoid Control Rear Axle Differential Lock Control Object Sensor Control	34	0.5 0.5 0.75	WH L-BU/WH BN/WH	1310 7120 2374	IX IX IX	— — —
35	0.5 0.5 0.5	YE L-GN/BK L-BU/BK	2375 7118 7493	VI VI VI	— — —	Left Rear Corner Object Sensor Signal Front Axle Differential Lock Low Reference High Speed GMLAN Serial Data (+)3	35	0.5 0.5 0.5	YE L-GN/BK L-BU/BK	2375 7118 7493	IX IX IX	— — —
36	0.5 0.5 0.5	YE/L-BU L-BU/BK WH	2376 7116 7494	VI VI VI	— — —	Left Rear Middle Object Sensor Signal Front Axle Differential Lock Control High Speed GMLAN Serial Data (-)3	36	0.5 0.5 0.5	YE/L-BU L-BU/BK WH	2376 7116 7494	IX IX IX	— — —
37	0.5	L-BU/YE	6105	VI	—	High Speed GMLAN Serial Data (+) 2	37	0.5	L-BU/YE	6105	IX	—

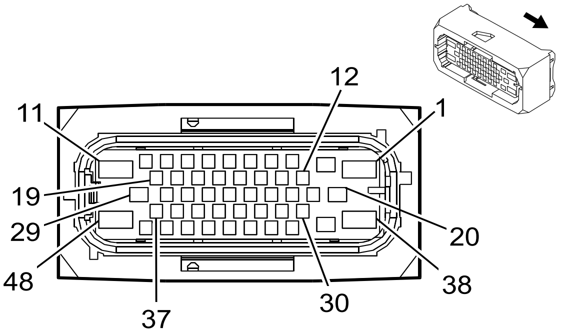
X106 Body Harness to Chassis Harness (cont'd)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
38	4	OG	742	IV	—	Battery Positive Voltage	38	4	OG	742	X	—
39	1.5	BN	2109	V	—	Trailer Park Lamp Control	39	1.5	BN	2109	VII	—
40	0.5	L-GN	6974	VI	—	Camera Low Reference	40	0.5	L-GN	6974	IX	—
41	0.5	GY/YE	6972	VI	—	Camera Signal 2 +	41	0.5	GY/YE	6972	IX	—
42	0.5	WH/L-BU	6973	VI	—	Camera Signal 2	42	0.5	WH/L-BU	6973	IX	—
43	0.5 0.5 0.5	YE/VT VT/GY BK/YE	2378 7117 7447	VI VI VI	— — —	Right Rear Corner Object Sensor Signal Front Axle Differential Lock Indicator Control Fuel Line Pressure Sensor Low Reference	43	0.5 0.5 0.5	YE/VT VT/GY BK/YE	2378 7117 7447	IX IX IX	— — —
44	0.5 0.5 0.5	YE/WH BK/YE L-BU/WH	2377 7259 7446	VI VI VI	— — —	Right Rear Middle Object Sensor Signal Axle Differential Lock Switch Low Reference Fuel Line Pressure Sensor Signal	44	0.5 0.5 0.5	YE/WH BK/YE L-BU/WH	2377 7259 7446	IX IX IX	— — —
45	0.5 0.5 0.75	YE/L-GN BN/RD BK/GY	7122 7445 2379	VI VI VI	— — —	Axle Differential Lock Switch Signal Fuel Line Pressure Sensor 5V Reference Object Sensor Low Reference	45	0.5 0.5 0.75	YE/L-GN BN/RD BK/GY	7122 7445 2379	IX IX IX	— — —
46	0.5	WH	6106	VI	—	High Speed GMLAN Serial Data (-) 2	46	0.5	WH	6106	IX	—
47	0.5 0.75	YE WH/VT	7115 1430	VI VI	— —	Rear Axle Differential Lock Indicator Control Exterior Courtesy Lamp Control	47	0.5 0.75	YE WH/VT	7115 1430	IX IX	— —

X106 Body Harness to Chassis Harness (cont'd)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
48	2.5 2.5 2.5	GY RD/VT L-BU	120 1940 47	III III III	— — —	Fuel Pump Control Battery Positive Voltage Trailer Auxiliary Control	48	2.5 2.5 2.5	GY RD/VT L-BU	120 1940 47	XII XII XII	— — —

X107 Engine Harness to Chassis Harness (LWN)



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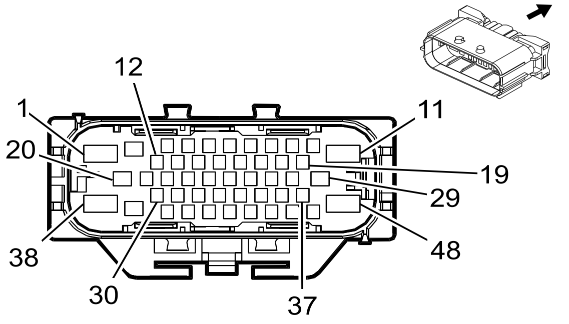


3924401

Connector Part Information

Harness Type: Engine

OEM Connector: 15509585

Service Connector: 19329744

Description: 48-Way F 1.5 MCP, 2.8 JPT, 6.3 MCP Series, Sealed (BK)

Connector Part Information

Harness Type: Chassis

OEM Connector: 15513438

Service Connector: 19356277

Description: 48-Way M 1.6, 2.8, 5.8 Series, Sealed (BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I		J-35616-14 (GN)	J-3125-560	Not Available	Not Available	Not Available	Not Available
II	13579914	J-35616-40 (BU)	J-38125-556	1241408-1	Lear 28	Not Available	Not Available
III	13579915	J-35616-40 (BU)	J-38125-556	1241408-1	Lear 28	C	A
IV	13579921	J-35616-40 (BU)	J-38125-556	1241408-1	Lear 28	B	G
V	13579986	J-35616-4A (PU)	J-38125-36	Not Available	Not Available	Not Available	Not Available
VI	13584463	J-35616-35 (VT)	J-38125-36	Not Available	Not Available	Not Available	Not Available
VII	-	J-35616-14 (GN)	J-38125-215A	Not Available	Not Available	Not Available	Not Available
VIII	13575574	J-35616-5 (PU)	J-38125-36	Not Available	Not Available	Not Available	Not Available
IX	13580836	J-35616-3 (GY)	J-38125-560	Not Available	Not Available	Not Available	Not Available
X	13582335	J-35616-3 (GY)	J-38125-560	Not Available	Not Available	Not Available	Not Available
XI	13584548	J-35616-5 (PU)	J-38125-36	Not Available	Not Available	Not Available	Not Available
XII	19368304	J-35616-43 (RD)	J-38125-557	Not Available	Not Available	Not Available	Not Available
XIII	-	J-35616-32 (OR)	J-38125-36	Not Available	Not Available	Not Available	Not Available
XIV	-	J-35616-43 (RD)	J-38125-36	Not Available	Not Available	Not Available	Not Available

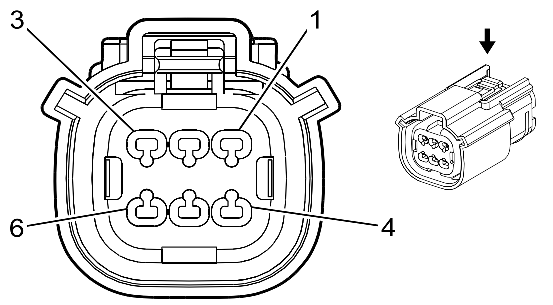
X107 Engine Harness to Chassis Harness (LWN)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	1.5	VT/L-BU	3674	III	—	NOx Sensor 1 Control	1	1.5	VT/L-BU	3674	XIV	—
2	0.5	BN/L-BU	2926	VI	—	Hydrocarbon Injector High Control	2	0.5	BN/L-BU	2926	XI	—
3	0.5	VT/BN	2927	VII	—	Hydrocarbon Injector Low Control	3	0.5	VT/BN	2927	X	—
4	—	—	—	—	—	Not Occupied	4	—	—	—	—	—
5	0.75	VT/GY	139	VII	—	Run/Crank Ignition 1 Voltage	5	0.75	VT/GY	139	X	—
6	0.5	L-BU/YE	6861	VII	—	Water In Fuel Sensor Signal	6	0.5	L-BU/YE	6861	X	—
7	1.5	VT/L-BU	3674	I	—	NOx Sensor 1 Control	7	1.5	VT/L-BU	3674	IX	—
8 - 9	—	—	—	—	—	Not Occupied	8 - 9	—	—	—	—	—
10	0.5	WH/RD	6054	VII	—	Exhaust Pressure Sensor 5V Reference 1	10	0.5	WH/RD	6054	X	—
11	0.5	BK/YE	6055	II	—	Exhaust Pressure Sensor Low Reference 1	11	0.5	BK/YE	6055	XIII	—
12	0.5	L-BU	6053	VII	—	Exhaust Pressure Sensor Signal 1	12	0.5	L-BU	6053	X	—
13	0.5	VT/L-GN	4320	VII	—	Selective Catalytic Reduction Power Module Wake-Up Signal	13	0.5	VT/L-GN	4320	X	—
14	0.5	BK/L-BU	6783	VII	—	Exhaust Gas Temperature Sensor 2 Low Reference	14	0.5	BK/L-BU	6783	X	—
15	0.5	L-BU/L-GN	5377	VII	—	Exhaust Gas Temperature Sensor 2	15	0.5	L-BU/L-GN	5377	X	—
16 - 17	—	—	—	—	—	Not Occupied	16 - 17	—	—	—	—	—
18	0.5	BK/L-GN	3657	VII	—	Exhaust Gas Temperature Sensor 3 Low Reference	18	0.5	BK/L-GN	3657	X	—
19	0.5	GY/L-GN	5378	VII	—	Exhaust Gas Temperature Sensor 3	19	0.5	GY/L-GN	5378	X	—

X107 Engine Harness to Chassis Harness (LWN) (cont'd)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
20	0.5	BK/ GY	3659	VI	—	Exhaust Gas Temperature Sensor 4 Low Reference	20	0.5	BK/ GY	3659	XI	—
21	0.5	VT/ BN	3658	VII	—	Exhaust Gas Temperature Sensor 4 Signal	21	0.5	VT/ BN	3658	X	—
22	0.5	BK/ VT	3661	VII	—	Exhaust Gas Temperature Sensor 5 Low Reference	22	0.5	BK/ VT	3661	X	—
23	0.5	L-BU/ GY	3660	VII	—	Exhaust Gas Temperature Sensor 5 Signal	23	0.5	L-BU/ GY	3660	X	—
24 - 27	—	—	—	—	—	Not Occupied	24 - 27	—	—	—	—	—
28	0.5	L-BU/ BN	4498	VII	—	High Speed GMLAN Serial Data (+) 7	28	0.5	L-BU/ BN	4498	X	—
29	0.5	WH	4499	VI	—	High Speed GMLAN Serial Data (-) 7	29	0.5	WH	4499	XI	—
30	0.5	BN/ GY	7072	VII	—	Sensor Fuel Temperature 1 Signal	30	0.5	BN/ GY	7072	X	—
31	0.5	BN/ WH	7073	VII	—	Sensor Fuel Temperature 1 Low Reference	31	0.5	BN/ WH	7073	X	—
32 - 37	—	—	—	—	—	Not Occupied	32 - 37	—	—	—	—	—
38	4	L-BU	3921	IV	—	DEF Heater Supply 1	38	4	L-BU	3921	XII	—
39	2.5	L-BU/ L-GN	7071	V	—	Heater Fuel Control	39	2.5	L-BU/ L-GN	7071	VIII	—
40 - 48	—	—	—	—	—	Not Occupied	40 - 48	—	—	—	—	—

X108 Engine Harness to Cooling Fan Harness (LWN)



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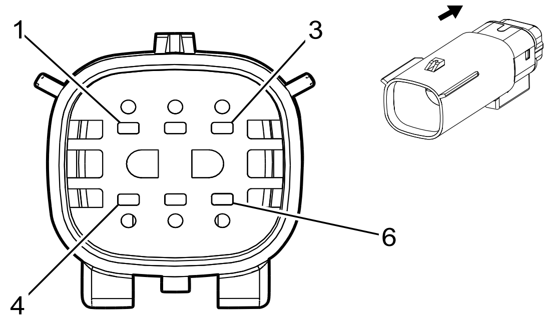


1986159

Connector Part Information

Harness Type: Engine
OEM Connector: 33472-0606
Service Connector: 13585853
Description: 6-Way F 150 MX Series, Sealed (BK)

Connector Part Information

Harness Type: Cooling Fan
OEM Connector: Not Available
Service Connector: Service by Harness - See Part Catalog
Description: 6-Way M

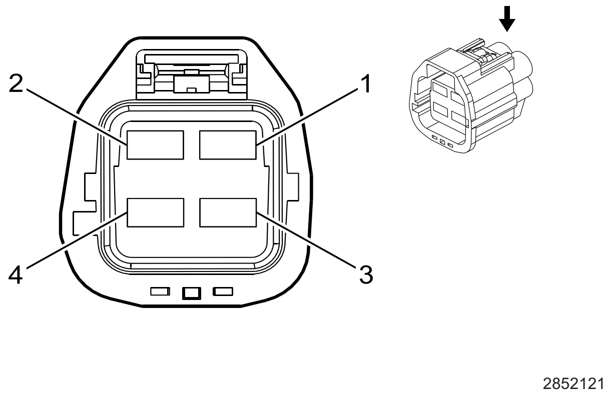
Terminal Part Information

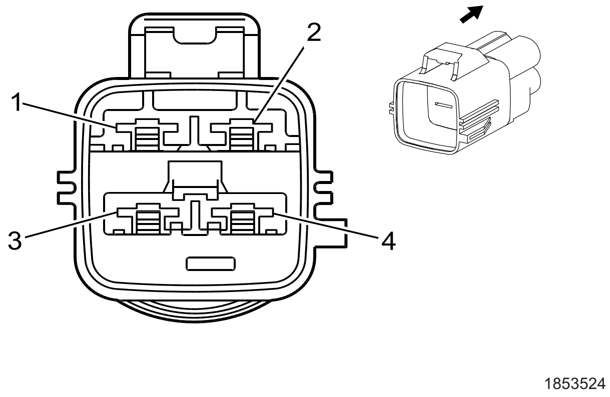
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-2A (GY)	No Tool Required	Not Required	Not Required	Not Required	Not Required
II	Not Required	J-35616-3 (GY)	No Tool Required	Not Required	Not Required	Not Required	Not Required

X108 Engine Harness to Cooling Fan Harness (LWN)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	—	—	—	—	—	Not Occupied	1	—	—	—	—	—
2	0.5	WH	2368	I	—	Cooling Fan Control Signal	2	0.5	WH	2368	II	—
3	0.5	GY/ RD	2365	I	—	Cooling Fan Speed 5V Reference	3	0.5	GY/ RD	2365	II	—
4	0.5	L-BU/ VT	2364	I	—	Cooling Fan Speed Signal	4	0.5	L-BU/ VT	2364	II	—
5	0.5	BK/ BN	6141	I	—	Cooling Fan Speed Low Reference	5	0.5	BK/ BN	6141	II	—
6	0.5	BK	550	I	—	Ground	6	0.5	BK	550	II	—

X109 Engine Harness to Forward Lamp Harness (LWN)





Connector Part Information

Harness Type: Engine
OEM Connector: 7283-3108-10
Service Connector: 13501883
Description: 4-Way F 6.3 Series, Sealed (D-GY)

Connector Part Information

Harness Type: Forward Lamp
OEM Connector: 7282-5595-10
Service Connector: 13585864
Description: 4-Way M 6.3 Series, Sealed (D-GY)

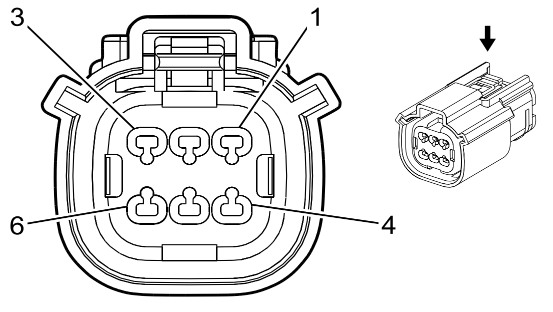
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-42 (RD)	No Tool Required	Not Required	Not Required	Not Required	Not Required
II	Not Required	J-35616-43 (RD)	No Tool Required	Not Required	Not Required	Not Required	Not Required

X109 Engine Harness to Forward Lamp Harness (LWN)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	6	BN/L-BU	104	I	—	Glow Plug Control	1	4	BN/L-BU	104	II	—
2	4	L-BU	3921	I	—	DEF Heater Supply 1	2	4	L-BU	3921	II	—
3	2.5	L-BU/ L-GN	7071	I	—	Heater Fuel Control	3	2.5	L-BU/ L-GN	7071	II	—
4	—	—	—	—	—	Not Occupied	4	—	—	—	—	—

X110 Forward Lamp Harness to Left Front Lamp Harness



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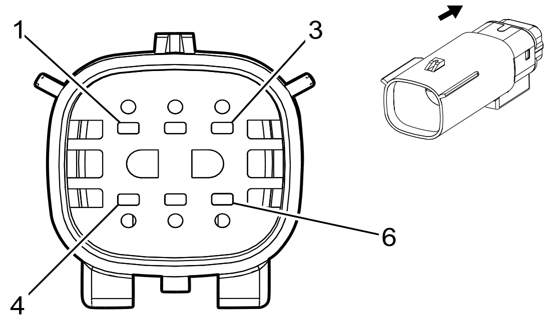


1986159

Connector Part Information

Harness Type: Forward Lamp
OEM Connector: 33472-0606
Service Connector: 13585853
Description: 6-Way F 150 MX Series, Sealed (BK)

Connector Part Information

Harness Type: Left Front Lamp
OEM Connector: Not Available
Service Connector: Service by Harness - See Part Catalog
Description: 6-Way M

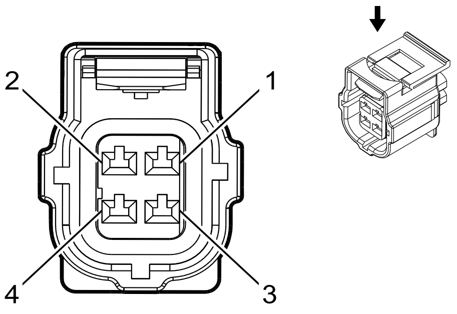
Terminal Part Information

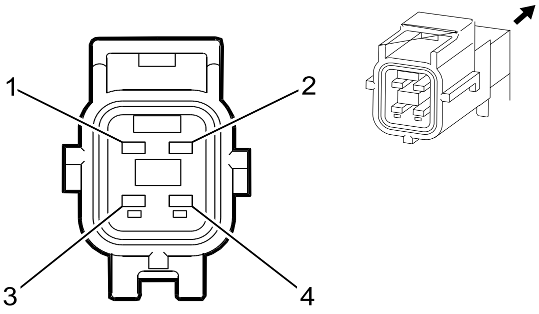
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-14 (GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required
II	Not Required	J-35616-2A (GY)	No Tool Required	Not Required	Not Required	Not Required	Not Required
III	Not Required		No Tool Required	Not Required	Not Required	Not Required	Not Required

X110 Forward Lamp Harness to Left Front Lamp Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	1.5	BK	1150	I	—	Ground	1	1.5	BK	1150	III	—
2	1.5	YE	712	I	—	Left Headlamp Low Beam Control	2	1.5	YE	712	III	—
3	0.5	WH	711	II	—	Left Headlamp High Beam Control	3	0.5	WH	711	III	—
4	0.75	VT/ GY	709	II	—	Left Park Lamp Control	4	0.75	VT/ GY	709	III	—
5	0.75	L-BU/ WH	1314	II	—	Left Front Turn Signal Lamp Control	5	0.75	L-BU/ WH	1314	III	—
6	—	—	—	—	—	Not Occupied	6	—	—	—	—	—

X111 Engine Harness to Glow Plug Harness (LWN)





Connector Part Information

Harness Type: Engine
OEM Connector: 184248-1
Service Connector: 13587793
Description: 4-Way F SSC Series (BK)

Connector Part Information

Harness Type: Glow Plug
OEM Connector: Not Available
Service Connector: Service by Harness - See Part Catalog
Description: 4-Way M Sealed Sensor Connector System (BK)

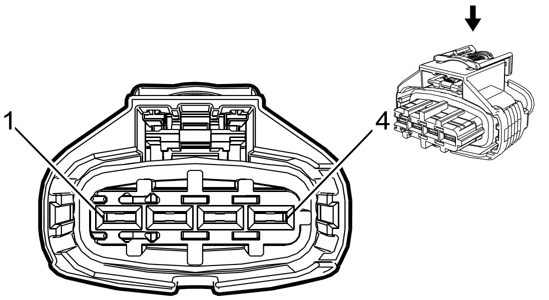
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-33 (YE)	No Tool Required	Not Required	Not Required	Not Required	Not Required
II	Not Required	J-35616-34 (YE)	No Tool Required	Not Required	Not Required	Not Required	Not Required

X111 Engine Harness to Glow Plug Harness (LWN)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	2	GY/ BU	1581	I	—	Glow Plug Control 1	1	1.5	GY/ BU	1581	II	—
2	2	GY/ BN	1582	I	—	Glow Plug Control 2	2	1.5	GY/ BN	1582	II	—
3	2	GY/ GN	1583	I	—	Glow Plug Control 3	3	1.5	GY/ GN	1583	II	—
4	2	GY/ YE	1584	I	—	Glow Plug Control 4	4	1.5	GY/ YE	1584	II	—

X112 Engine Harness to Intake Manifold Pressure Sensor Jumper Harness



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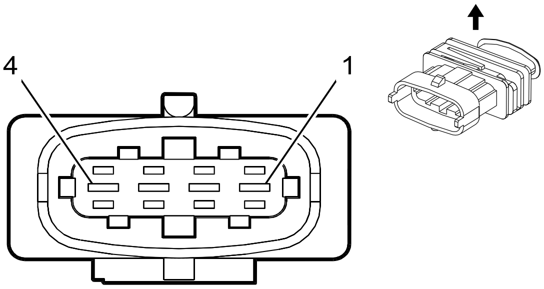

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Connector Part Information

Harness Type: Engine
OEM Connector: 1928405525
Service Connector: 13584423
Description: 4-Way F 2.8 Series, Sealed (BK)

Connector Part Information

Harness Type: Engine
OEM Connector: 13122327
Service Connector: 88952839
Description: 4-Way M 2.8 Series, Sealed (BK)

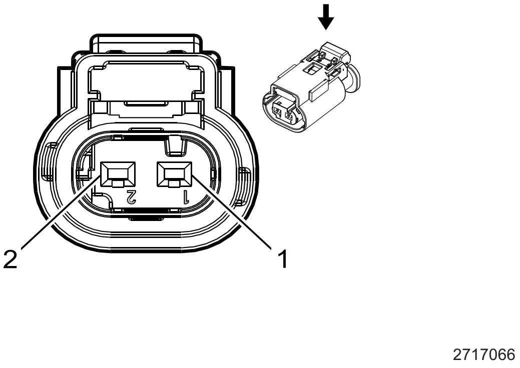
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	No Tool Required	No Tool Required	Not Required	Not Required	Not Required	Not Required
II	Not Required	No Tool Required	No Tool Required	Not Required	Not Required	Not Required	Not Required

X112 Engine Harness to Intake Manifold Pressure Sensor Jumper Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	0.5	BK/ GN	469	I	—	Manifold Absolute Pressure Sensor Low Reference	1	0.5	BK/ GN	469	II	—
2	0.5	BN	7348	I	—	Induction Air Temperature Sensor 2 Signal	2	0.5	BN	7348	II	—
3	0.5	GY/ RD	2704	I	—	Manifold Absolute Pressure Sensor 5V Reference	3	0.5	GY/ RD	2704	II	—
4	0.5	GN/ WH	432	I	—	Manifold Absolute Pressure Sensor Signal	4	0.5	GN/ WH	432	II	—

X113 Engine Harness to Oil Pressure Control Solenoid Valve Jumper Harness (LGZ)



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Connector Part Information

Harness Type: Oil Pressure Control Solenoid Valve Jumper
OEM Connector: 13503566
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way F 1.2 Multilock Series, Sealed (BK)

Connector Part Information

Harness Type: Oil Pressure Control Solenoid Valve Jumper
OEM Connector: Not Available
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way M

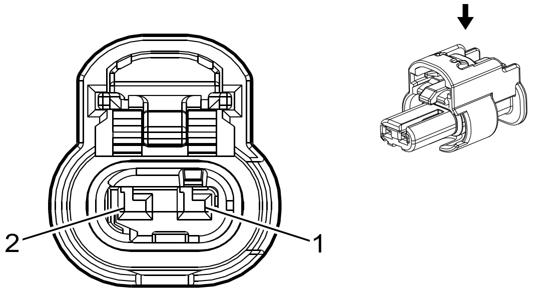
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	Not Available	No Tool Required	Not Required	Not Required	Not Required	Not Required
II	Not Required	No Tool Required	No Tool Required	Not Required	Not Required	Not Required	Not Required

X113 Engine Harness to Oil Pressure Control Solenoid Valve Jumper Harness (LGZ)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	0.5	VT/BU	5293	I	—	Powertrain Main Relay Fused Supply 4	1	0.5	VT/BU	5293	II	—
2	0.5	BU	179	I	—	Oil Pump Command Signal	2	0.5	BU	179	II	—

X114 Engine Harness to Temp Sensor Jumper Harness



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4649903

Connector Part Information

Harness Type: Engine
OEM Connector: 1-2296694-1
Service Connector: -
Description: 2-Way F 1.2 MCON Series, Sealed (BK)

Connector Part Information

Harness Type: Temp Sensor Jumper
OEM Connector: Not Available
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way M

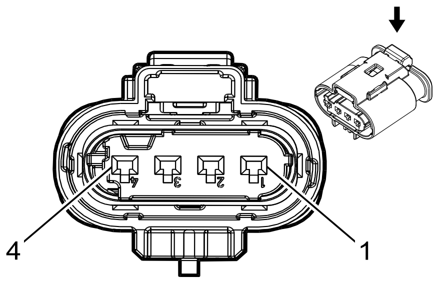
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-16 (LT GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required
II	Not Required	J-35616-17 (LT GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

X114 Engine Harness to Temp Sensor Jumper Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	0.5	L-BU	410	I	—	Engine Coolant Temperature Sensor Signal	1	0.5	L-BU	410	II	—
2	0.5	BK/BN	2761	I	—	Coolant Temperature Sensor Low Reference	2	0.5	BK/BN	2761	II	—

X119 Engine Harness to Body Harness (NQ6+LGZ)



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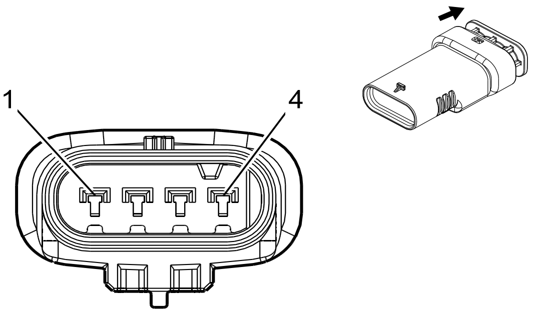


4560843

Connector Part Information

Harness Type: Engine
OEM Connector: 10010346
Service Connector: 13587299
Description: 4-Way F 1.2 Multilock Series, Sealed (BK)

Connector Part Information

Harness Type: Body
OEM Connector: 10013906
Service Connector: 19354931
Description: 4-Way M 1.2 Multilock Series (GY)

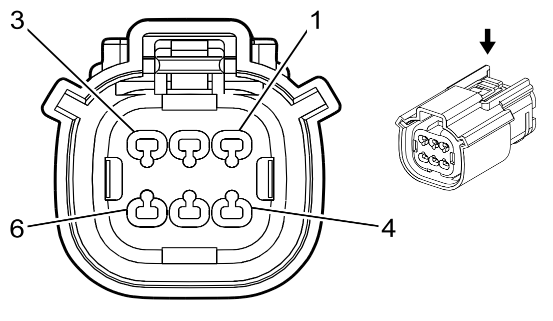
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-16 (LT GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required
II	Not Required	J-35616-17 (LT GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

X119 Engine Harness to Body Harness (NQ6+LGZ)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	0.5	WH/ RD	7477	I	—	Rotary Position Sensor 5V Reference	1	0.5	WH/ RD	7477	II	—
2	0.5	WH/ L-GN	7479	I	—	Rotary Position Sensor Signal	2	0.5	WH/ L-GN	7479	II	—
3	0.5	YE/ BK	7478	I	—	Rotary Position Sensor Low Reference	3	0.5	YE/ BK	7478	II	—
4	—	—	—	—	—	Not Occupied	4	—	—	—	—	—

X120 Forward Lamp Harness to Right Front Lamp Harness



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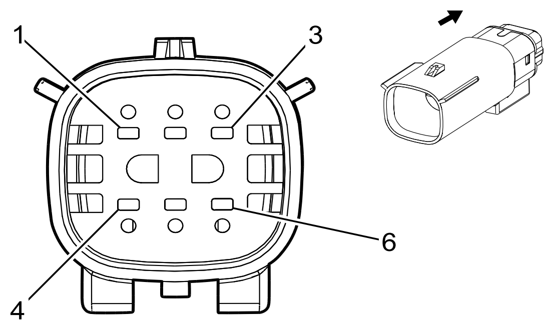


1986159

Connector Part Information

Harness Type: Forward Lamp
OEM Connector: 33472-0606
Service Connector: 13585853
Description: 6-Way F 150 MX Series, Sealed (BK)

Connector Part Information

Harness Type: Right Front Lamp
OEM Connector: Not Available
Service Connector: Service by Harness - See Part Catalog
Description: 6-Way M

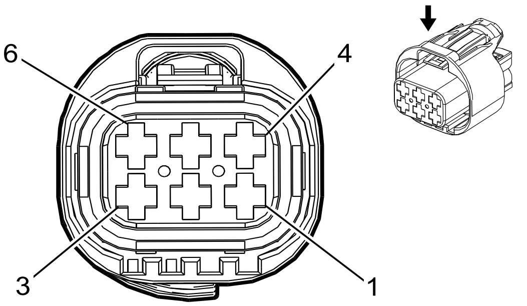
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-14 (GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required
II	Not Required	J-35616-2A (GY)	No Tool Required	Not Required	Not Required	Not Required	Not Required
III	Not Required		No Tool Required	Not Required	Not Required	Not Required	Not Required

X120 Forward Lamp Harness to Right Front Lamp Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	1.5	BK	1250	I	—	Ground	1	1.5	BK	1250	III	—
2	1.5	YE	312	I	—	Right Headlamp Low Beam Control	2	1.5	YE	312	III	—
3	0.75	WH	311	II	—	Right Headlamp High Beam Control	3	0.75	WH	311	III	—
4	0.75	GY/ BN	309	II	—	Right Park Lamp Control	4	0.75	GY/ BN	309	III	—
5	0.75	L-GN/ VT	1315	II	—	Right Front Turn Signal Lamp Control	5	0.75	L-GN/ VT	1315	III	—
6	—	—	—	—	—	Not Occupied	6	—	—	—	—	—

X122 Body Harness to Chassis Harness (LWN)



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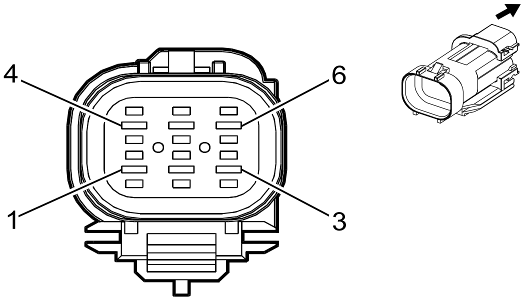


2042939

Connector Part Information

Harness Type: Body

OEM Connector: 1452327-1

Service Connector: 19332889

Description: 6-Way F 2.8 Junior Power Timer Series, Sealed (BK)

Connector Part Information

Harness Type: Chassis

OEM Connector: 1452324-1

Service Connector: 93185233

Description: 6-Way M 2.8 Series, Sealed (BK)

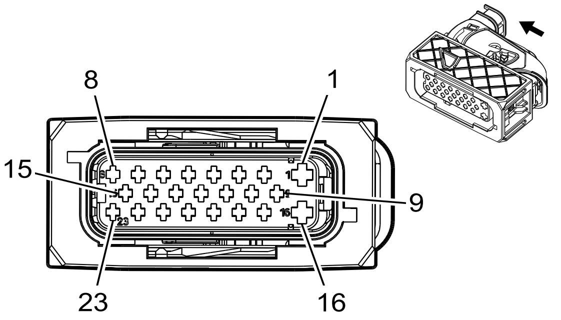
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-4A (PU)	No Tool Required	Not Required	Not Required	Not Required	Not Required
II	Not Required	J-35616-5 (PU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

X122 Body Harness to Chassis Harness (LWN)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	1	GY/BK	7253	I	—	Rear Differential Lock Actuator Low Control	1	1	GY/BK	7253	II	—
2	1	VT/BN	7258	I	—	Rear Differential Lock Actuator Supply Voltage	2	1	VT/BN	7258	II	—
3	—	—	—	—	—	Not Occupied	3	—	—	—	—	—
4	1	WH/BK	7254	I	—	Front Differential Lock Actuator Low Control	4	1	WH/BK	7254	II	—
5	1	VT/WH	7256	I	—	Front Differential Lock Actuator Supply Voltage	5	1	VT/WH	7256	II	—
6	0.75	WH/VT	1430	I	—	Exterior Courtesy Lamp Control	6	0.75	WH/VT	1430	II	—

X124 Body Harness to Chassis Harness



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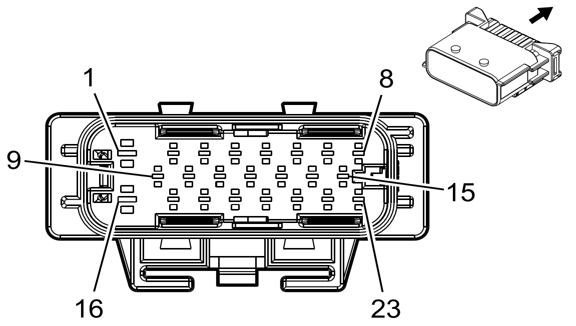


2906943

Connector Part Information

Harness Type: Body
OEM Connector: 13674800
Service Connector: 19300480
Description: 23-Way F 1.5 DSQ, 2.8 ATS Series, Sealed (BK)

Connector Part Information

Harness Type: Chassis
OEM Connector: 13674783
Service Connector: 19303858
Description: 23-Way M 1.5 DSQ, 2.8 ATS Series, Sealed (BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13578922	J-35616-4A (PU)	J-38125-36	Not Available	Not Available	Not Available	Not Available
II	13582248	J-35616-14 (GN)	J-38125-557	60000641	AFL 21	Not Available	Not Available
III	13584470	J-35616-14 (GN)	J-38125-560	60000641	AFL 21	2	5
IV	13584470	J-35616-14 (GN)	J-38125-560	60000641	AFL 21	Not Available	Not Available
V	13579985	J-35616-3 (GY)	J-38125-560	Not Available	Not Available	Not Available	Not Available
VI	13582335	J-35616-3 (GY)	J-38125-560	Not Available	Not Available	Not Available	Not Available
VII	13584548	J-35616-5 (PU)	J-38125-36	Not Available	Not Available	Not Available	Not Available

X124 Body Harness to Chassis Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	1	VT/BN	7258	I	—	Rear Differential Lock Actuator Supply Voltage	1	1	VT/BN	7258	VII	—
2	0.75	BN/WH	2374	IV	—	Object Sensor Control	2	—	—	—	—	—
3	0.5	L-BU/WH	7120	II	—	Rear Axle Differential Lock Control	3	0.5	L-BU/WH	7120	VI	—

X124 Body Harness to Chassis Harness (cont'd)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
4	0.5 0.5	VT/BK L-BU/RD	7121 7632	II II	— —	Rear Axle Differential Lock Low Reference Integrated Trailer Brake Controller Switch 5V Reference	4	0.5 0.5	VT/BK L-BU/RD	7121 7632	VI VI	— —
5	0.5 0.5	YE BK/BN	2375 7631	II II	— —	Left Rear Corner Object Sensor Signal Integrated Trailer Brake Controller Switch Low Reference	5	0.5	BK/BN	7631	VI	—
6	0.5 0.5	L-BU/RD L-GN/BK	7632 7633	II II	— —	Integrated Trailer Brake Controller Switch 5V Reference Integrated Trailer Brake Controller User Gain Signal	6	0.5 0.5	L-BU/RD L-GN/BK	7632 7633	VI VI	— —
7	0.5 0.5	L-GN/BK BN	7633 7634	II II	— —	Integrated Trailer Brake Controller User Gain Signal Integrated Trailer Brake Controller Redundant Manual Apply Signal	7	0.5 0.5	L-GN/BK BN	7633 7634	VI VI	— —
8	0.5 0.5	VT/YE BN	5985 7634	II II	— —	Accessory Wakeup Serial Data Integrated Trailer Brake Controller Redundant Manual Apply Signal	8	0.5 0.5	VT/YE BN	5985 7634	VI VI	— —
9	1	GY/BK	7253	III	—	Rear Differential Lock Actuator Low Control	9	1	GY/BK	7253	V	—
10	0.5	YE/L-BU	2376	II	—	Left Rear Middle Object Sensor Signal	10	—	—	—	—	—
11	0.5	L-BU/BK	7116	II	—	Front Axle Differential Lock Control	11	0.5	L-BU/BK	7116	VI	—

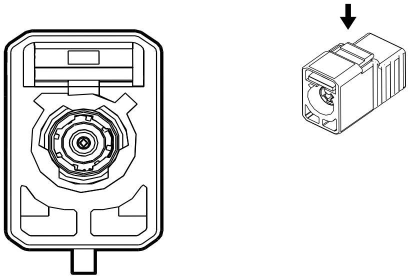
X124 Body Harness to Chassis Harness (cont'd)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
12	0.5	L-GN/ BK	7118	II	—	Front Axle Differential Lock Low Reference	12	0.5	L-GN/ BK	7118	VI	—
13	0.5 0.5	YE YE/L-GN	2375 7122	II II	— —	Left Rear Corner Object Sensor Signal Axle Differential Lock Switch Signal	13	0.5 0.5	YE YE/L-GN	2375 7122	VI VI	— —
14	0.5 0.5	YE/L-BU VT/ YE	2376 5985	II II	— —	Left Rear Middle Object Sensor Signal Accessory Wakeup Serial Data	14	0.5 0.5	YE/L-BU VT/ YE	2376 5985	VI VI	— —
15	0.5 0.5	YE/ WH BK/ BN	2377 7631	II II	— —	Right Rear Middle Object Sensor Signal Integrated Trailer Brake Controller Switch Low Reference	15	0.5 0.5	YE/ WH BK/ BN	2377 7631	VI VI	— —
16	1	VT/ WH	7256	I	—	Front Differential Lock Actuator Supply Voltage	16	1	VT/ WH	7256	VII	—
17	1	WH/ BK	7254	III	—	Front Differential Lock Actuator Low Control	17	1	WH/ BK	7254	V	—
18	0.5	YE/ VT	2378	II	—	Right Rear Corner Object Sensor Signal	18	—	—	—	—	—
19	0.5	YE/ WH	2377	II	—	Right Rear Middle Object Sensor Signal	19	—	—	—	—	—
20	0.75	BK/ GY	2379	IV	—	Object Sensor Low Reference	20	—	—	—	—	—
21	0.5 0.5	YE/ VT BK/ YE	2378 7259	II II	— —	Right Rear Corner Object Sensor Signal Axle Differential Lock Switch Low Reference	21	0.5 0.5	YE/ VT BK/ YE	2378 7259	VI VI	— —

X124 Body Harness to Chassis Harness (cont'd)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
22	0.5 0.75 0.75	YE BK/GY BK/GY	7115 2379 2379	II IV II	— — —	Rear Axle Differential Lock Indicator Control Object Sensor Low Reference Object Sensor Low Reference	22	0.5 0.75	YE BK/GY	7115 2379	VI VI	— —
23	0.5 0.75	VT/GY BN/WH	7117 2374	II IV	— —	Front Axle Differential Lock Indicator Control Object Sensor Control	23	0.5 0.75	VT/GY BN/WH	7117 2374	VI VI	— —

X125 Body Harness to Chassis Harness



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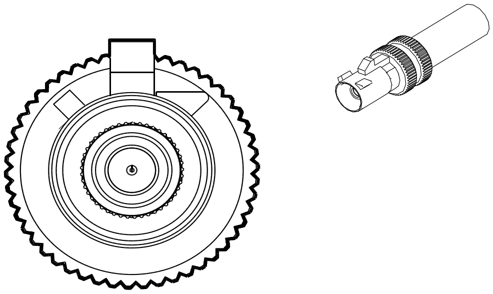


5001492

Connector Part Information

Harness Type: Body COAX

OEM Connector: 13508115

Service Connector: Service by Cable Assembly — See Part Catalog

Description: 1-Way F Coax Type (BK)

Connector Part Information

Harness Type: Chassis COAX

OEM Connector: 13508111

Service Connector: Service by Cable Assembly — See Part Catalog

Description: 1-Way M Coax Type (BK)

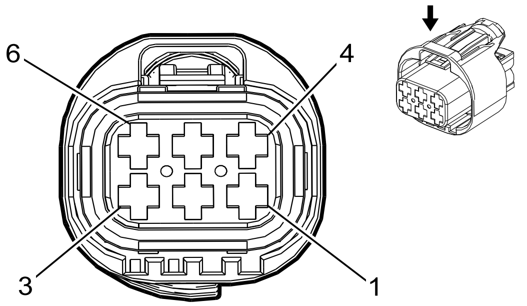
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	No Tool Required	No Tool Required	Not Required	Not Required	Not Required	Not Required

X125 Body Harness to Chassis Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
—	—	Coax	—	I	—	(ISRVM) Camera Video Signal	—	—	Coax	—	I	—

X126 Body Harness to Chassis Harness (LCV)



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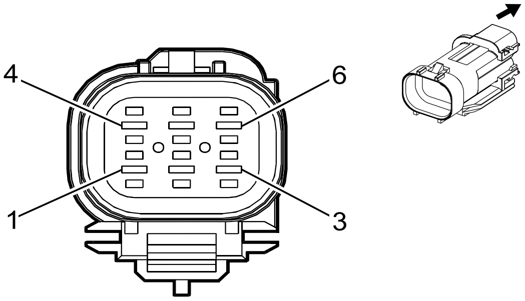


2042939

Connector Part Information

Harness Type: Body

OEM Connector: 1452327-1

Service Connector: 19332889

Description: 6-Way F 2.8 Junior Power Timer Series, Sealed (BK)

Connector Part Information

Harness Type: Chassis

OEM Connector: 1452324-1

Service Connector: 93185233

Description: 6-Way M 2.8 Series, Sealed (BK)

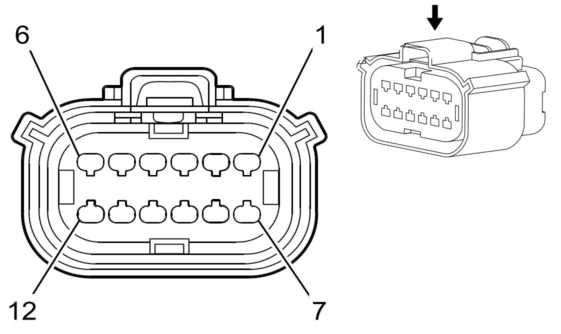
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-4A (PU)	No Tool Required	Not Required	Not Required	Not Required	Not Required
II	Not Required	J-35616-5 (PU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

X126 Body Harness to Chassis Harness (LCV)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	0.75	BN/WH	2374	I	—	Object Sensor Control	1	0.75	BN/WH	2374	II	—
2	0.5	YE	2375	I	—	Left Rear Corner Object Sensor Signal	2	0.5	YE	2375	II	—
3	0.5	YE/L-BU	2376	I	—	Left Rear Middle Object Sensor Signal	3	0.5	YE/L-BU	2376	II	—
4	0.5	YE/VT	2378	I	—	Right Rear Corner Object Sensor Signal	4	0.5	YE/VT	2378	II	—
5	0.5	YE/WH	2377	I	—	Right Rear Middle Object Sensor Signal	5	0.5	YE/WH	2377	II	—
6	0.75	BK/GY	2379	I	—	Object Sensor Low Reference	6	0.75	BK/GY	2379	II	—

X160 Engine Harness to Fuel Injector Harness (LCV)



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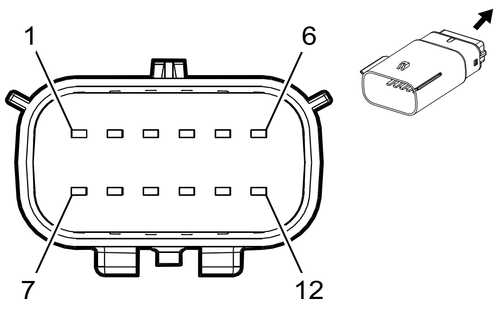


2687960

Connector Part Information

Harness Type: Engine
OEM Connector: 33472-1216
Service Connector: 19150019
Description: 12-Way F 150 MX Series, Sealed (BK)

Connector Part Information

Harness Type: Fuel Injector
OEM Connector: Not Available
Service Connector: Service by Harness - See Part Catalog
Description: 12-Way M

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13575808	J-35616-2A (GY)	J-38125-217	Not Available	Not Available	Not Available	Not Available
II	19300432	J-35616-2A (GY)	J-38125-217	Not Available	Not Available	Not Available	Not Available
III	Not Required	J-35616-3 (GY)	No Tool Required	Not Required	Not Required	Not Required	Not Required

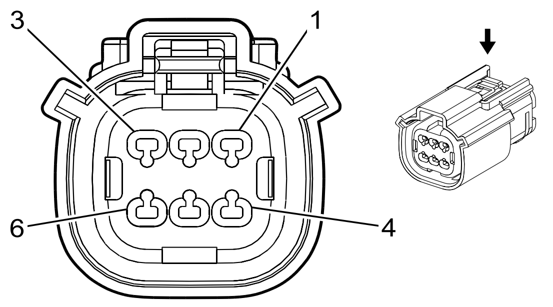
X160 Engine Harness to Fuel Injector Harness (LCV)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	0.75	BN	4801	I	—	Direct Fuel Injector (DFI) High Voltage Control Cylinder 1	1	0.75	BN	4801	III	—
2	0.75	L-BU	4802	I	—	Direct Fuel Injector (DFI) High Voltage Control Cylinder 2	2	0.75	L-BU	4802	III	—
3	0.75	L-GN	4803	I	—	Direct Fuel Injector (DFI) High Voltage Control Cylinder 3	3	0.75	L-GN	4803	III	—
4	0.75	GY/L-BU	4804	I	—	Direct Fuel Injector (DFI) High Voltage Control Cylinder 4	4	0.75	GY/L-BU	4804	III	—
5	0.5	BK/L-GN	2919	II	—	Fuel Rail Pressure Sensor Low Reference	5	0.5	BK/L-GN	2919	III	—

X160 Engine Harness to Fuel Injector Harness (LCV) (cont'd)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
6	—	—	—	—	—	Not Occupied	6	—	—	—	—	—
7	0.75	BN/ WH	4901	I	—	Direct Fuel Injector (DFI) High Voltage Supply Cylinder 1	7	0.75	BN/ WH	4901	III	—
8	0.75	L-BU/ GY	4902	I	—	Direct Fuel Injector (DFI) High Voltage Supply Cylinder 2	8	0.75	L-BU/ GY	4902	III	—
9	0.75	L-GN/ GY	4903	I	—	Direct Fuel Injector (DFI) High Voltage Supply Cylinder 3	9	0.75	L-GN/ GY	4903	III	—
10	0.75	L-BU/ WH	4904	I	—	Direct Fuel Injector (DFI) High Voltage Supply Cylinder 4	10	0.75	L-BU/ WH	4904	III	—
11	0.5	BN/ RD	2917	II	—	Fuel Rail Pressure Sensor 5V Reference	11	0.5	BN/ RD	2917	III	—
12	0.5	L-BU/ WH	2918	II	—	Fuel Rail Pressure Sensor Signal	12	0.5	L-BU/ WH	2918	III	—

X160 Engine Harness to Fuel Injector Harness (LGZ)



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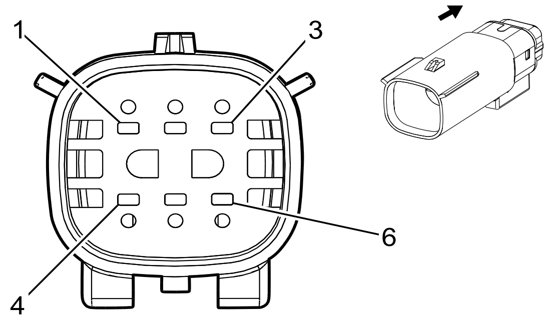


1986159

Connector Part Information

Harness Type: Engine
OEM Connector: 33472-0606
Service Connector: 13585853
Description: 6-Way F 150 MX Series, Sealed (BK)

Connector Part Information

Harness Type: Fuel Injector
OEM Connector: Not Available
Service Connector: Service by Harness - See Part Catalog
Description: 6-Way M

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-2A (GY)	No Tool Required	Not Required	Not Required	Not Required	Not Required
II	Not Required	J-35616-3 (GY)	No Tool Required	Not Required	Not Required	Not Required	Not Required

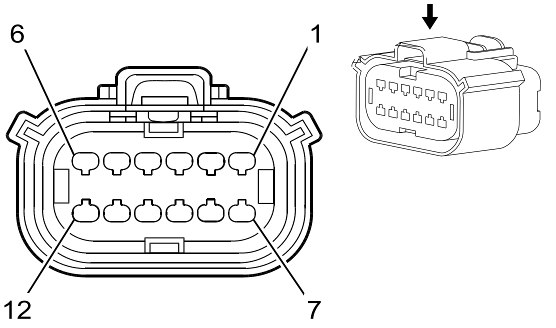
X160 Engine Harness to Fuel Injector Harness (LGZ)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	0.75	BN	4801	I	—	Direct Fuel Injector (DFI) High Voltage Control Cylinder 1	1	0.75	BN	4801	II	—
2	0.75	BN/WH	4901	I	—	Direct Fuel Injector (DFI) High Voltage Supply Cylinder 1	2	0.75	BN/WH	4901	II	—
3	0.75	L-GN	4803	I	—	Direct Fuel Injector (DFI) High Voltage Control Cylinder 3	3	0.75	L-GN	4803	II	—
4	0.75	L-GN/GY	4903	I	—	Direct Fuel Injector (DFI) High Voltage Supply Cylinder 3	4	0.75	L-GN/GY	4903	II	—
5	0.75	WH/L-GN	4805	I	—	Direct Fuel Injector (DFI) High Voltage Control Cylinder 5	5	0.75	WH/L-GN	4805	II	—

X160 Engine Harness to Fuel Injector Harness (LGZ) (cont'd)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
6	0.75	L-GN/ WH	4905	I	—	Direct Fuel Injector (DFI) High Voltage Supply Cylinder 5	6	0.75	L-GN/ WH	4905	II	—

X161 Engine Harness to Fuel Injector - Even Harness



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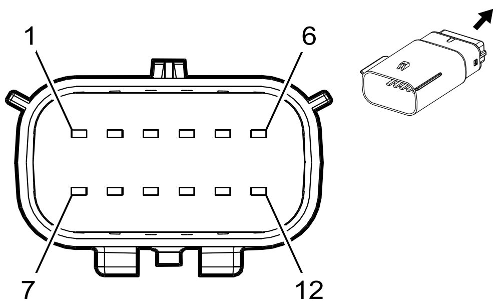


2687960

Connector Part Information

Harness Type: Engine
OEM Connector: 33472-1236
Service Connector: 19178148
Description: 12-Way F 150 MX Series, Sealed (BK)

Connector Part Information

Harness Type: Fuel Injector - Even
OEM Connector: Not Available
Service Connector: Service by Harness - See Part Catalog
Description: 12-Way M

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13578813	J-35616-2A (GY)	J-38125-217	Not Available	Not Available	Not Available	Not Available
II	Not Required	J-35616-3 (GY)	No Tool Required	Not Required	Not Required	Not Required	Not Required

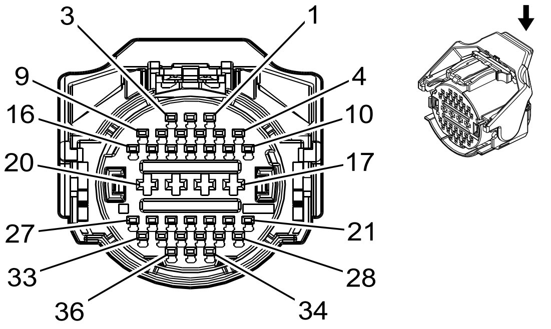
X161 Engine Harness to Fuel Injector - Even Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	—	—	—	—	—	Not Occupied	1	—	—	—	—	—
2	0.75	L-BU	4802	I	—	Direct Fuel Injector (DFI) High Voltage Control Cylinder 2	2	0.75	L-BU	4802	II	—
3	0.75	GY/L-BU	4804	I	—	Direct Fuel Injector (DFI) High Voltage Control Cylinder 4	3	0.75	GY/L-BU	4804	II	—
4	0.75	VT/L-GN	4806	I	—	Direct Fuel Injector (DFI) High Voltage Control Cylinder 6	4	0.75	VT/L-GN	4806	II	—
5	0.5	BK/L-GN	2919	I	—	Fuel Rail Pressure Sensor Low Reference	5	0.5	BK/L-GN	2919	II	—
6 - 7	—	—	—	—	—	Not Occupied	6 - 7	—	—	—	—	—

X161 Engine Harness to Fuel Injector - Even Harness (cont'd)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
8	0.75	L-BU/ GY	4902	I	—	Direct Fuel Injector (DFI) High Voltage Supply Cylinder 2	8	0.75	L-BU/ GY	4902	II	—
9	0.75	L-BU/ WH	4904	I	—	Direct Fuel Injector (DFI) High Voltage Supply Cylinder 4	9	0.75	L-BU/ WH	4904	II	—
10	0.75	VT/ GY	4906	I	—	Direct Fuel Injector (DFI) High Voltage Supply Cylinder 6	10	0.75	VT/ GY	4906	II	—
11	0.5	BN/ RD	2917	I	—	Fuel Rail Pressure Sensor 5V Reference	11	0.5	BN/ RD	2917	II	—
12	0.5	L-BU/ WH	2918	I	—	Fuel Rail Pressure Sensor Signal	12	0.5	L-BU/ WH	2918	II	—

X175 Engine Harness to Transmission Case Harness



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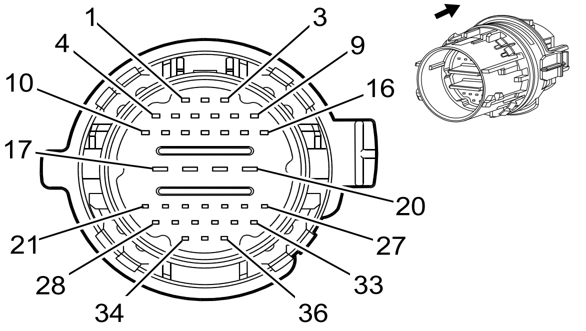


3977661

Connector Part Information

Harness Type: Engine

OEM Connector: 2138314-5

Service Connector: 19329922

Description: 36-Way F 1.2 MCON-CB, 2.8 MCP Series, Sealed (BK)

Connector Part Information

Harness Type: Transmission Case

OEM Connector: Not Available

Service Connector: Service by Harness - See Part Catalog

Description: 36-Way M

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13582289	J-35616-16 (LT GN)	J-38125-12A	Not Available	Not Available	Not Available	Not Available
II	-	J-35616-35 (VT)	J-38125-557	1241388-1	Lear 17	E	C
III	Not Required	J-35616-17 (LT GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

X175 Engine Harness to Transmission Case Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	0.5	L-GN/WH	6380	I	—	TCC On/Off Solenoid A Control	1	0.5	L-GN/WH	6380	III	—
2	—	—	—	—	—	Not Occupied	2	—	—	—	—	—
3	0.5	YE/BN	6404	I	—	Clutch E Control	3	0.5	YE/BN	6404	III	—
4	0.5	GY/L-GN	6403	I	—	Clutch D Control	4	0.5	GY/L-GN	6403	III	—
5	0.5	BN	6400	I	—	Clutch A Control	5	0.5	BN	6400	III	—
6	0.5	L-BU	6401	I	—	Clutch B Control	6	0.5	L-BU	6401	III	—
7	0.5	YE/BN	6210	I	—	TCC On/Off Solenoid B Control	7	0.5	YE/BN	6210	III	—
8 - 9	—	—	—	—	—	Not Occupied	8 - 9	—	—	—	—	—
10	0.5	GY	6402	I	—	Clutch C Control	10	0.5	GY	6402	III	—

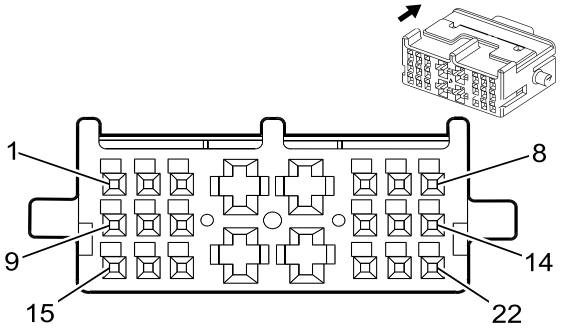
X175 Engine Harness to Transmission Case Harness (cont'd)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
11	0.5	BK/ BN	586	I	—	Transmission Oil Temperature Sensor Low Reference	11	0.5	BK/ BN	586	III	—
12	0.5	BN/ WH	585	I	—	Transmission Oil Temperature Sensor Signal	12	0.5	BN/ WH	585	III	—
13	0.5	WH	4508	I	—	Transmission Clutch G Control	13	0.5	WH	4508	III	—
14	0.5	WH/ L-BU	4507	I	—	Transmission Clutch H Control	14	0.5	WH/ L-BU	4507	III	—
15 - 17	—	—	—	—	—	Not Occupied	15 - 17	—	—	—	—	—
18	0.75	L-GN/ GY	6387	II	—	Transmission High Side Driver 1 Signal Driver	18	0.75	L-GN/ GY	6387	III	—
19	0.75	GY/ BN	6388	II	—	Transmission High Side Driver 2 Signal	19	0.75	GY/ BN	6388	III	—
20	—	—	—	—	—	Not Occupied	20	—	—	—	—	—
21	0.5	WH/ BK	5983	I	—	PRNDL C Signal	21	0.5	WH/ BK	5983	III	—
22	0.5	VT/ WH	5981	I	—	PRNDL A Signal	22	0.5	VT/ WH	5981	III	—
23	0.5	GY/ WH	4168	I	—	PRNDL P Signal	23	0.5	GY/ WH	4168	III	—
24	0.5	GY/L-BU	6358	I	—	Output Speed Signal	24	0.5	GY/L-BU	6358	III	—
25	0.5	YE/L-GN	4170	I	—	Transmission Position Sensor B 9V Reference	25	0.5	YE/L-GN	4170	III	—
26	0.5	L-GN/ YE	6353	I	—	Input Speed Signal	26	0.5	L-GN/ YE	6353	III	—
27	0.5	YE/L-BU	4171	I	—	Transmission Position Sensor A 9V Reference	27	0.5	YE/L-BU	4171	III	—
28	0.5	GY/ BN	5982	I	—	PRNDL B Signal	28	0.5	GY/ BN	5982	III	—
29	0.5	YE/L-BU	4171	I	—	Transmission Position Sensor A 9V Reference	29	0.5	YE/L-BU	4171	III	—
30	0.5	BK/ GY	3927	I	—	IMS Mode Switch Low Reference	30	0.5	BK/ GY	3927	III	—
31	0.5	YE/L-GN	4170	I	—	Transmission Position Sensor B 9V Reference	31	0.5	YE/L-GN	4170	III	—

X175 Engine Harness to Transmission Case Harness (cont'd)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
32	0.5	L-GN/ VT	4510	I	—	Transmission Intermediate Speed Signal	32	0.5	L-GN/ VT	4510	III	—
33	—	—	—	—	—	Not Occupied	33	—	—	—	—	—
34	0.5	GY/ YE	4169	I	—	PRNDL S Signal	34	0.5	GY/ YE	4169	III	—
35	0.5	WH/ GY	1786	I	—	Transmission Park/Neutral Signal 1	35	0.5	WH/ GY	1786	III	—
36	—	—	—	—	—	Not Occupied	36	—	—	—	—	—

X176 Transmission Case Harness to Transmission Control Harness (M5T)



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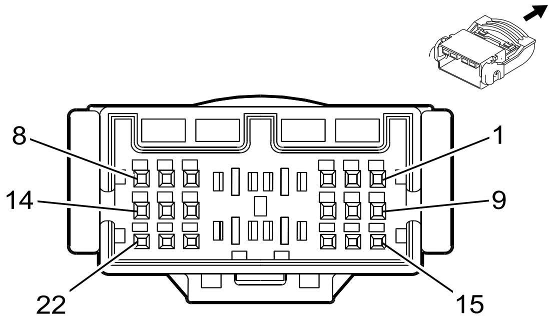


3977770

Connector Part Information

Harness Type: Transmission Case

OEM Connector: 1897543-1

Service Connector: Service by Harness - See Part Catalog

Description: 22-Way F 0.64 Micro-Quadlock, 2.8 Micro-Power Series (NA)

Connector Part Information

Harness Type: Transmission Control

OEM Connector: 1897540-1

Service Connector: Service by Harness - See Part Catalog

Description: 22-Way M 0.64 Micro-Quadlock, 2.8 Micro-Power Series (NA)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-35 (VT)	No Tool Required	Not Required	Not Required	Not Required	Not Required
II	Not Required	J-35616-64B (LT BU)	No Tool Required	Not Required	Not Required	Not Required	Not Required
III	Not Required	J-35616-5 (PU)	No Tool Required	Not Required	Not Required	Not Required	Not Required
IV	Not Required	J-35616-65B (LT BU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

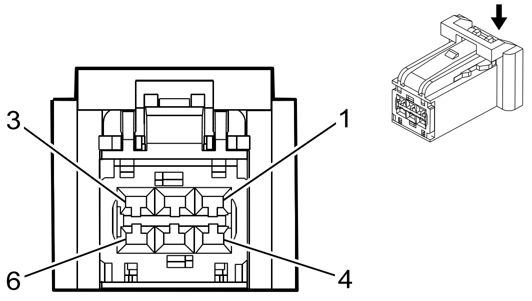
X176 Transmission Case Harness to Transmission Control Harness (M5T)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	0.5	GN/ WH	6380	II	—	TCC On/Off Solenoid A Control	1	0.5	GN/ WH	6380	IV	—
2	0.5	VT/ WH	5981	II	—	PRNDL A Signal	2	0.5	VT/ WH	5981	IV	—
3	0.5	GY/ BN	5982	II	—	PRNDL B Signal	3	0.5	GY/ BN	5982	IV	—
4	2.5	GN/ GY	6387	I	—	Transmission High Side Driver 1 Signal Driver	4	2.5	GN/ GY	6387	III	—
5	0.5	YE/ BU	4171	I	—	Transmission Position Sensor A 9V Reference	5	0.5	YE/ BU	4171	III	—
6	0.5	GY/ YE	4169	II	—	PRNDL S Signal	6	0.5	GY/ YE	4169	IV	—
7	0.5	WH/ BU	4507	II	—	Transmission Clutch H Control	7	0.5	WH/ BU	4507	IV	—

X176 Transmission Case Harness to Transmission Control Harness (M5T) (cont'd)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
8	0.5	GY/ GN	6403	II	—	Clutch D Control	8	0.5	GY/ GN	6403	IV	—
9	0.5	WH	4508	II	—	Transmission Clutch G Control	9	0.5	WH	4508	IV	—
10	0.5	YE/ BN	6210	II	—	TCC On/Off Solenoid B Control	10	0.5	YE/ BN	6210	IV	—
11	0.5	WH/ BK	5983	II	—	PRNDL C Signal	11	0.5	WH/ BK	5983	IV	—
12	0.5	WH/ GY	1786	II	—	Transmission Park/Neutral Signal 1	12	0.5	WH/ GY	1786	IV	—
13	0.5	GY	6402	II	—	Clutch C Control	13	0.5	GY	6402	IV	—
14	0.5	YE/ BN	6404	II	—	Clutch E Control	14	0.5	YE/ BN	6404	IV	—
15	0.5	BN/ WH	585	II	—	Transmission Oil Temperature Sensor Signal	15	0.5	BK/ WH	585	IV	—
16	0.5	BK/ BN	586	II	—	Transmission Oil Temperature Sensor Low Reference	16	0.5	BK/ BN	586	IV	—
17	0.5	GY/ WH	4168	II	—	PRNDL P Signal	17	0.5	GY/ WH	4168	IV	—
18	2.5	GY/ BN	6388	I	—	Transmission High Side Driver 2 Signal	18	2.5	GY/ BN	6388	III	—
19	0.5	YE/ GN	4170	I	—	Transmission Position Sensor B 9V Reference	19	0.5	YE/ GN	4170	III	—
20	0.5	BK/ GY	3927	II	—	IMS Mode Switch Low Reference	20	0.5	BK/ GY	3927	IV	—
21	0.5	BN	6400	II	—	Clutch A Control	21	0.5	BN	6400	IV	—
22	0.5	BU	6401	II	—	Clutch B Control	22	0.5	BU	6401	IV	—

X177 Transmission Case Harness to Speed Sensor Assembly Harness (M5T)



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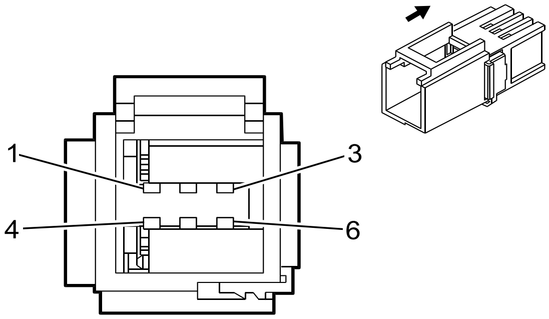


3977959

Connector Part Information

Harness Type: Transmission Case
OEM Connector: 13960975
Service Connector: Service by Harness - See Part Catalog
Description: 6-Way F 1.2 OCS Series (NA)

Connector Part Information

Harness Type: Speed Sensor Assembly
OEM Connector: 13955963
Service Connector: Service by Harness - See Part Catalog
Description: 6-Way M 0.64 II Series (GY)

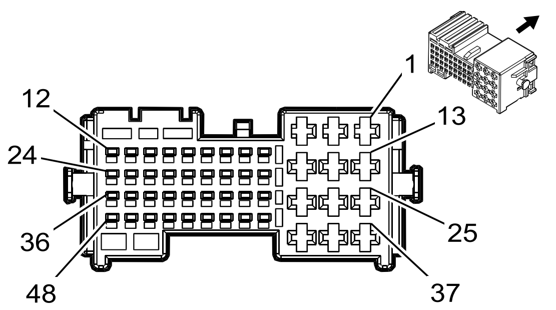
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-16 (LT GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required
II	Not Required	J-35616-65B (LT BU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

X177 Transmission Case Harness to Speed Sensor Assembly Harness (M5T)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	0.5	GY/ BU	6358	I	—	Output Speed Signal	1	0.5	GY/ BU	6358	II	—
2	0.5	YE/ GN	4170	I	—	Transmission Position Sensor B 9V Reference	2	0.5	RD/ GN	4170	II	—
3	0.5	YE/ GN	4170	I	—	Transmission Position Sensor B 9V Reference	3	0.5	YE/ GN	4170	II	—
4	0.5	YE/ BU	4171	I	—	Transmission Position Sensor A 9V Reference	4	0.5	YE/ BU	4171	II	—
5	0.5	GN/ YE	6353	I	—	Input Speed Signal	5	0.5	GN/ YE	6353	II	—
6	0.5	GN/ VT	4510	I	—	Transmission Intermediate Speed Signal	6	0.5	BK/ VT	4510	II	—

X200 Body Harness to Instrument Panel Harness



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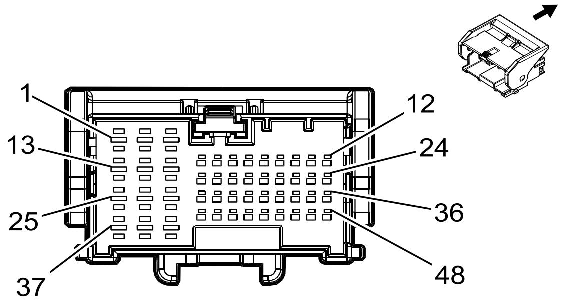


3277901

Connector Part Information

Harness Type: Body
OEM Connector: 2109452-2
Service Connector: 19329739
Description: 48-Way F 1.2 MCON, 2.8 MCP Series (BK)

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 5-2109455-2
Service Connector: 19329740
Description: 48-Way M 1.2 MCON, 2.8 MCP Series (BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	19119592	J-35616-4A (PU)	J-38125-557	Not Available	Not Available	Not Available	Not Available
II	19329758	J-35616-16 (LT GN)	J-38125-12A	Not Available	Not Available	Not Available	Not Available
III	-	-	-	Not Available	Not Available	Not Available	Not Available
IV	13575529	J-35616-5 (PU)	J-38125-36	Not Available	Not Available	Not Available	Not Available
V	13575574	J-35616-5 (PU)	J-38125-36	Not Available	Not Available	Not Available	Not Available
VI	19329749	J-35616-17 (LT GN)	J-38125-12A	Not Available	Not Available	Not Available	Not Available

X200 Body Harness to Instrument Panel Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	2.5	RD/VT	542	I	—	Battery Positive Voltage	1	2.5	RD/VT	542	V	—
2	—	—	—	—	—	Not Occupied	2	—	—	—	—	—
3	0.5	L-GN/BN	507	I	—	Wait To Start Indicator Control	3	0.35	L-GN/BN	507	IV	—
4	0.5	L-BU/YE	6105	II	—	High Speed GMLAN Serial Data (+) 2	4	0.5	L-BU/YE	6105	VI	—
5	0.5	WH	6106	II	—	High Speed GMLAN Serial Data (-) 2	5	0.5	WH	6106	VI	—

X200 Body Harness to Instrument Panel Harness (cont'd)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
6	0.5	RD/L-GN	4440	II	—	Battery Positive Voltage	6	0.5	RD/L-GN	4440	VI	—
7	0.75	BN/WH	2374	II	—	Object Sensor Control	7	0.75	BN/WH	2374	VI	—
8	0.75	BK/GY	2379	II	—	Object Sensor Low Reference	8	0.35	BK/GY	2379	VI	—
9	0.5	YE	2375	II	—	Left Rear Corner Object Sensor Signal	9	0.5	YE	2375	VI	—
10	0.5	YE/L-BU	2376	II	—	Left Rear Middle Object Sensor Signal	10	0.5	YE/L-BU	2376	VI	—
11	0.5	YE/VT	2378	II	—	Right Rear Corner Object Sensor Signal	11	0.5	YE/VT	2378	VI	—
12	0.5	YE/WH	2377	II	—	Right Rear Middle Object Sensor Signal	12	0.5	YE/WH	2377	VI	—
13	—	—	—	—	—	Not Occupied	13	—	—	—	—	—
14	1	L-BU	201	I	—	Left Front Speaker Control (+) 1 Left Front Speaker Control (+) 1	14	0.75 1	L-BU L-BU	201 201	V V	— —
15	1	BN/L-BU	118	I	—	Left Front Speaker Signal (-) 1 Left Front Speaker Signal (-) 1	15	0.75 1	BN/L-BU BN/L-BU	118 118	V V	— —
16	0.5	L-BU/BN	7573	II	—	Electric Variable Displacement Supply	16	0.5	L-BU/BN	7573	VI	—
17	0.5	L-BU/YE	7574	II	—	Electric Variable Displacement Control	17	0.5	L-BU/YE	7574	VI	—
18	0.5	GY	158	II	—	Cargo Lamp Switch Signal	18	0.35	GY	158	VI	—
19	0.5	BN/WH	1429	II	—	Standing Lamp Relay Control	19	0.5	BN/WH	1429	VI	—
20	0.5	L-GN/WH	24	II	—	Backup Lamp Control	20	0.35	L-GN/WH	24	VI	—

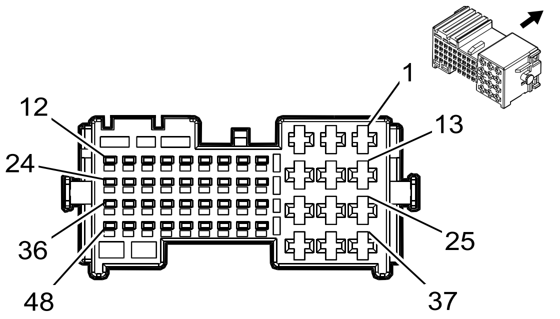
X200 Body Harness to Instrument Panel Harness (cont'd)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
21	0.35	WH	6816	II	—	Indicator Dimming Control	21	0.35	WH	6816	VI	—
22	0.5	YE	6817	II	—	LED Backlight Dimming Control	22	0.5	YE	6817	VI	—
23	0.35	YE/ BN	3265	II	—	Child Security Lock Switch Signal	23	0.35	YE/ BN	3265	VI	—
24	0.35	GY	5697	II	—	Child Lockout Indicator Control	24	0.35	GY	5697	VI	—
25	—	—	—	—	—	Not Occupied	25	—	—	—	—	—
26	1	L-GN/ BK	116	I	—	Left Rear Speaker Signal (-) Left Rear Speaker Signal (-)	26	0.75 1	L-GN/ BK L-GN/ BK	116 116	V V	— —
27	1	L-GN	199	I	—	Left Rear Speaker Control (+) Left Rear Speaker Control (+)	27	0.75 1	L-GN L-GN	199 199	V V	— —
28 - 29	—	—	—	—	—	Not Occupied	28 - 29	—	—	—	—	—
30	0.5	BN/ WH	419	II	—	Check Engine Indicator Control	30	0.35	BN/ WH	419	VI	—
31	0.35	BN/ YE	780	II	—	Driver Door Lock Switch Lock Signal	31	0.35	BN/ YE	780	VI	—
32	0.35	BN/ WH	781	II	—	Driver Door Lock Switch Unlock Signal	32	0.35	BN/ WH	781	VI	—
33	0.5	WH	5359	II	—	Brake Apply Sensor Control	33	0.35	WH	5359	VI	—
34	0.5	L-BU/ YE	5361	II	—	Brake Apply Sensor Signal	34	0.35	L-BU/ YE	5361	VI	—
35	0.5	BK/ BN	5360	II	—	Brake Apply Sensor Low Reference	35	0.35	BK/ BN	5360	VI	—
36	0.5	Bare	6974	II	—	Camera Low Reference	36	0.35	Bare	6974	VI	—
37	2.5	RD/L-GN	242	III	—	Battery Positive Voltage	37	2.5	RD/L-GN	242	V	—
38 - 39	—	—	—	—	—	Not Occupied	38 - 39	—	—	—	—	—

X200 Body Harness to Instrument Panel Harness (cont'd)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
40	0.35	VT	185	II	—	Low Washer Fluid Indicator Control	40	0.35	VT	185	VI	—
41	—	—	—	—	—	Not Occupied	41	—	—	—	—	—
42	0.5	BK/ WH	2251	II	—	Signal Ground	42	0.5	BK/ WH	2251	VI	—
43	0.5	WH/ L-BU	5986	II	—	Serial Data Communication Enable	43	0.5	WH/ L-BU	5986	VI	—
44	—	—	—	—	—	Not Occupied	44	—	—	—	—	—
45	0.5	BN/ VT	193	II	—	Rear Defog Relay Control	45	0.35	BN/ VT	193	VI	—
46	0.5	L-GN/ GY	6135	II	—	Local Interconnect Network Serial Data Bus 4	46	0.5	L-GN/ GY	6135	VI	—
47	0.5	GY/ YE	6972	II	—	Camera Signal 2 +	47	0.35	GY/ YE	6972	VI	—
48	0.5	WH/ L-BU	6973	II	—	Camera Signal 2	48	0.35	WH/ L-BU	6973	VI	—

X202 Body Harness to Instrument Panel Harness



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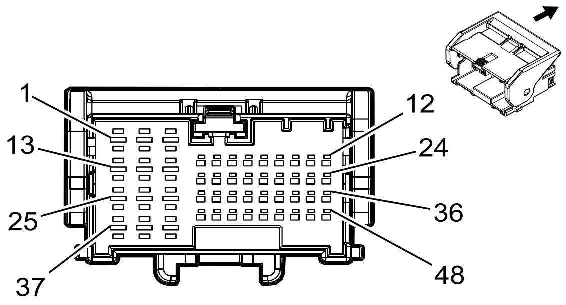


3924404

Connector Part Information

Harness Type: Body
OEM Connector: 1-2109452-3
Service Connector: 19329737
Description: 48-Way F 1.2 MCON, 2.8 MCP Series (GY)

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 1-2109455-3
Service Connector: 19329738
Description: 48-Way M 1.2 MCON, 2.8 MCP Series

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	19119592	J-35616-4A (PU)	J-38125-557	Not Available	Not Available	Not Available	Not Available
II	19329758	J-35616-16 (LT GN)	J-38125-12A	Not Available	Not Available	Not Available	Not Available
III	13575574	J-35616-5 (PU)	J-38125-36	Not Available	Not Available	Not Available	Not Available
IV	19329749	J-35616-17 (LT GN)	J-38125-12A	Not Available	Not Available	Not Available	Not Available

X202 Body Harness to Instrument Panel Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1 - 3	—	—	—	—	—	Not Occupied	1 - 3	—	—	—	—	—
4	0.5	RD/ WH	2040	II	—	Battery Positive Voltage	4	0.75	RD/ WH	2040	IV	—
5	0.5	VT	4601	II	—	Retained Accessory Power Fused Control	5	0.5	VT	4601	IV	—
6	0.35	RD/ YE	3040	II	—	Battery Positive Voltage	6	0.35	RD/ YE	3040	IV	—
7	0.75	RD/ BN	2240	II	—	Battery Positive Voltage	7	0.75	RD/ BN	2240	IV	—
8	0.35	VT	801	II	—	Retained Accessory Power Fuse Control	8	0.35	VT	801	IV	—

X202 Body Harness to Instrument Panel Harness (cont'd)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
9	0.5	RD/GY	2840	II	—	Battery Positive Voltage	9	0.5	RD/GY	2840	IV	—
10	0.5	VT/BN	300	II	—	Run Ignition 3 Voltage	10	0.5	VT/BN	300	IV	—
11 - 13	—	—	—	—	—	Not Occupied	11 - 13	—	—	—	—	—
14	2.5	L-BU	47	I	—	Trailer Auxiliary Control	14	2.5	L-BU	47	III	—
15	—	—	—	—	—	Not Occupied	15	—	—	—	—	—
16	0.35	GY/WH	3272	II	—	Remote Function Actuator Control	16	0.35	GY/WH	3272	IV	—
17	0.35	YE/L-GN	3274	II	—	Remote Function Actuator Transmit Signal	17	0.35	YE/L-GN	3274	IV	—
18	0.35	L-BU/WH	3275	II	—	Remote Function Actuator Receive Signal	18	0.35	L-BU/WH	3275	IV	—
19	0.35	GY	3273	II	—	Remote Function Actuator Low Reference	19	0.35	GY	3273	IV	—
20	0.35	GY/L-GN	328	II	—	Interior Lamp Defeat Switch Signal	20	0.35	GY/L-GN	328	IV	—
21	0.5	GY	157	II	—	Interior Lamp Control	21	0.5	GY	157	IV	—
22	0.5	YE	6817	II	—	LED Backlight Dimming Control	22	0.5	YE	6817	IV	—
23	0.5	VT/GY	7117	II	—	Front Axle Differential Lock Indicator Control	23	0.5	VT/GY	7117	IV	—
24	0.5	YE	7115	II	—	Rear Axle Differential Lock Indicator Control	24	0.5	YE	7115	IV	—
25	2.5	RD/YE	2340	I	—	Battery Positive Voltage	25	2.5	RD/YE	2340	III	—
26	—	—	—	—	—	Not Occupied	26	—	—	—	—	—
27	0.5	BK/YE	7259	I	—	Axle Differential Lock Switch Low Reference	27	0.5	BK/YE	7259	III	—
28	0.35	L-GN/BK	1563	II	—	2 HI Indicator Control	28	0.35	L-GN/BK	1563	IV	—

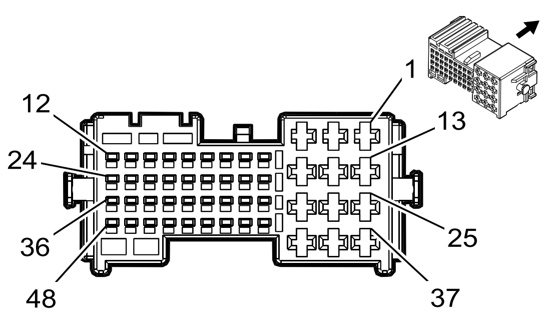
X202 Body Harness to Instrument Panel Harness (cont'd)

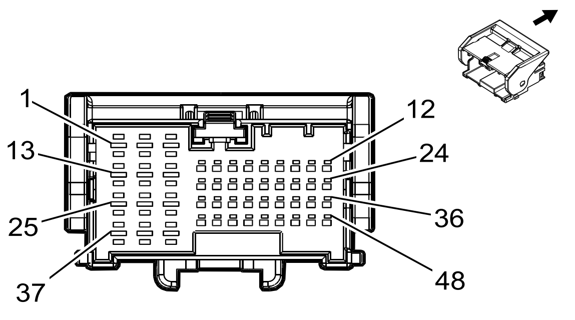
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
29	0.35	GY/L-GN	1561	II	—	AWD Indicator Control	29	0.35	GY/L-GN	1561	IV	—
30	0.35	BN/BK	1566	II	—	4 HI Indicator Control	30	0.35	BN/BK	1566	IV	—
31	0.35	VT/WH	1565	II	—	4 LO Indicator Control	31	0.35	VT/WH	1565	IV	—
32	0.35	BN	1560	II	—	Neutral Indicator Control	32	0.35	BN	1560	IV	—
33	0.35	GY/RD	6029	II	—	Four Wheel Drive Mode Switch 5V Reference	33	0.35	GY/RD	6029	IV	—
34	0.35	L-BU/YE	1693	II	—	Four Wheel Drive Switch Signal	34	0.35	L-BU/YE	1693	IV	—
35	0.5	L-GN/BK	7633	II	—	Integrated Trailer Brake Controller User Gain Signal	35	0.5	L-GN/BK	7633	IV	—
36	0.5	YE	7635	II	—	Integrated Trailer Brake Controller Manual Apply Signal	36	0.5	YE	7635	IV	—
37	0.5	L-BU/RD	7632	I	—	Integrated Trailer Brake Controller Switch 5V Reference	37	0.5	L-BU/RD	7632	III	—
38	0.5	BN	7634	I	—	Integrated Trailer Brake Controller Redundant Manual Apply Signal	38	0.5	BN	7634	III	—
39	0.5	BK/BN	7631	I	—	Integrated Trailer Brake Controller Switch Low Reference	39	0.5	BK/BN	7631	III	—
40	0.5	YE/L-GN	7122	II	—	Axle Differential Lock Switch Signal	40	0.5	YE/L-GN	7122	IV	—
41	0.5	WH/VT	5905	II	—	Key Capture/ Column Lock Shift Position Signal	41	0.5	WH/VT	5905	IV	—
42	0.5	L-GN/L-BU	6133	II	—	Local Interconnect Network Serial Data Bus 2	42	0.5	L-GN/L-BU	6133	IV	—
43	0.5	WH/L-BU	3691	II	—	Trailer Brake Apply Signal	43	0.5	WH/L-BU	3691	IV	—
44	0.5	VT/BK	7553	II	—	Park Lock Solenoid Control	44	0.5	VT/BK	7553	IV	—

X202 Body Harness to Instrument Panel Harness (cont'd)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
45 - 48	—	—	—	—	—	Not Occupied	45 - 48	—	—	—	—	—

X203 Body Harness to Instrument Panel Harness





Connector Part Information

Harness Type: Body
OEM Connector: 2109452-2
Service Connector: 19329739
Description: 48-Way F 1.2 MCON, 2.8 MCP Series (BK)

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 5-2109455-2
Service Connector: 19329740
Description: 48-Way M 1.2 MCON, 2.8 MCP Series (BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	19119592	J-35616-4A (PU)	J-38125-557	Not Available	Not Available	Not Available	Not Available
II	19329758	J-35616-16 (LT GN)	J-38125-12A	Not Available	Not Available	Not Available	Not Available
III	-	-	-	Not Available	Not Available	Not Available	Not Available
IV	13575529	J-35616-5 (PU)	J-38125-36	Not Available	Not Available	Not Available	Not Available
V	13575574	J-35616-5 (PU)	J-38125-36	Not Available	Not Available	Not Available	Not Available
VI	19329749	J-35616-17 (LT GN)	J-38125-12A	Not Available	Not Available	Not Available	Not Available

X203 Body Harness to Instrument Panel Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	2.5	RD/YE	3740	I	—	Battery Positive Voltage	1	2.5	RD/YE	3740	V	—
2	1	YE/BK	117	I	—	Right Front Speaker Signal (-) 1 Right Front Speaker Signal (-) 1	2	0.75 1	YE/BK YE/BK	117 117	V V	— —
3	1	YE	200	I	—	Right Front Speaker Control (+) 1 Right Front Speaker Control (+) 1	3	0.75 1	YE YE	200 200	V V	— —
4	0.35	YE/RD	597	II	—	5V Reference	4	0.35	YE/RD	597	VI	—

X203 Body Harness to Instrument Panel Harness (cont'd)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
5	0.35	BK/L-BU	7566	II	—	Humidity/ Windscreen Temp Sensor Low Reference	5	0.35	BK/L-BU	7566	VI	—
6	0.35	GY/L-GN	7565	II	—	Windscreen Temp Sensor Signal	6	0.35	GY/L-GN	7565	VI	—
7	0.35	GY/L-BU	7564	II	—	Humidity Sensor Signal	7	0.35	GY/L-BU	7564	VI	—
8	0.35	YE/L-BU	3197	II	—	Humidity Temperature Sensor Signal	8	0.35	YE/L-BU	3197	VI	—
9	0.35	YE	6817	II	—	LED Backlight Dimming Control	9	0.35	YE	6817	VI	—
10	0.35	BN	6136	II	—	Control	10	0.35	BN	6136	VI	—
11	0.5	RD/L-BU	540	II	—	Battery Positive Voltage	11	0.5	RD/L-BU	540	VI	—
12	0.5	VT/WH	1139	II	—	Run/Crank Ignition 1 Voltage	12	0.5	VT/WH	1139	VI	—
13	2.5	RD/VT	4040	I	—	Battery Positive Voltage	13	2.5	RD/VT	4040	V	—
14	1	L-BU/BK	115	I	—	Right Rear Speaker Signal (-) Right Rear Speaker Signal (-)	14	0.75 1	L-BU/BK L-BU/BK	115 115	V V	— —
15	1	WH	46	I	—	Right Rear Speaker Control (+) Right Rear Speaker Control (+)	15	0.75 1	WH WH	46 46	V V	— —
16	0.35	VT/WH	5234	II	—	Passenger Seat Belt Indicator Control	16	0.35	VT/WH	5234	VI	—
17	0.35	L-BU	2307	II	—	Passenger Air Bag On Indicator Control	17	0.35	L-BU	2307	VI	—
18	0.35	L-GN	2308	II	—	Passenger Air Bag Off Indicator Control	18	0.35	L-GN	2308	VI	—
19	0.5	Bare	1792	II	—	Low Reference	19	—	—	—	—	—

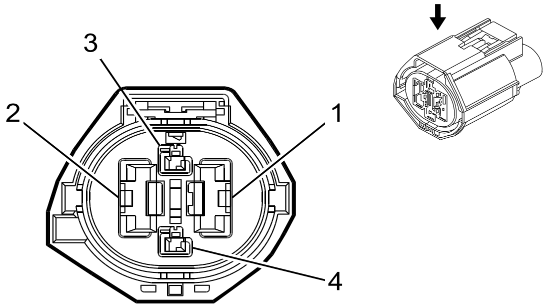
X203 Body Harness to Instrument Panel Harness (cont'd)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
20	0.35 0.35	BK/BN BK/GY	654 5152	II II	IOR UE1 +(IOS/IOT)	Cellular Telephone Microphone Low Reference Voice Recognition Audio Low Reference	20	0.35	BK/GY	5152	VI	—
21	0.35 0.35	L-BU GY/YE	655 5149	II II	IOR UE1 +(IOS/IOT)	Cellular Telephone Microphone Signal Voice Recognition Audio Signal	21	0.35	GY/YE	5149	VI	—
22	0.35	VT/YE	7043	II	—	Microphone (+) Signal	22	0.35	VT/YE	7043	VI	—
23	0.35	GY/WH	3153	II	—	Lane Departure Warning Disable Switch Signal	23	0.35	GY/WH	3153	VI	—
24	0.35	WH	3152	II	—	Lane Departure Warning Indicator Control	24	0.35	WH	3152	VI	—
25	0.35	RD/WH	6440	I	—	Battery Positive Voltage	25	0.35	RD/WH	6440	IV	—
26	1.5	VT	2101	I	—	Retained Accessory Power Fuse Ignition	26	1.5	VT	2101	V	—
27	2.5	RD/L-GN	2440	III	—	Battery Positive Voltage	27	2.5	RD/L-GN	2440	V	—
28	—	—	—	—	—	Not Occupied	28	—	—	—	—	—
29	0.35	GY/WH	7211	II	—	Ethernet Bus 4 (+)	29	0.35	GY/WH	7211	VI	—
30	0.35	GY	7210	II	—	Ethernet Bus 4 (-)	30	0.35	GY	7210	VI	—
31	0.35	L-BU/L-GN	1304	II	—	High Speed GMLAN Serial Data (+)9	31	0.35	L-BU/L-GN	1304	VI	—
32	0.35	WH/L-GN	1305	II	—	High Speed GMLAN Serial Data (-)9	32	0.35	WH/L-GN	1305	VI	—
33	0.35	GY/L-GN	1102	II	—	Low Speed GMLAN Serial Data #2	33	0.5	GY/L-GN	1102	VI	—
34	0.35	L-BU/BK	7044	II	—	Microphone (-) Low Reference	34	0.35	L-BU/BK	7044	VI	—
35	1	RD/VT	340	II	—	Battery Positive Voltage	35	1	RD/VT	340	VI	—

X203 Body Harness to Instrument Panel Harness (cont'd)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
36	0.5	VT/ BK	1639	II	—	Run/Crank Ignition 1 Voltage	36	0.5	VT/ BK	1639	VI	—
37	1.5	VT	1701	I	—	Retained Accessory Power Ignition	37	1.5	VT	1701	V	—
38	0.5	RD/ VT	340	I	—	Battery Positive Voltage	38	0.5	RD/ VT	340	V	—
39	0.75	BK	2050	I	—	Ground	39	0.75	BK	2050	V	—
40	0.5	L-BU	2500	II	—	High Speed GMLAN Serial Data (+) 1	40	0.5	L-BU	2500	VI	—
41	0.5	WH	2501	II	—	High Speed GMLAN Serial Data (-) 1	41	0.5	WH	2501	VI	—
42	0.35	L-BU/ L-GN	1304	II	—	High Speed GMLAN Serial Data (+)9	42	0.35	L-BU/ L-GN	1304	VI	—
43	0.35	WH/ L-GN	1305	II	—	High Speed GMLAN Serial Data (-)9	43	0.35	WH/ L-GN	1305	VI	—
44	—	—	—	—	—	Not Occupied	44	—	—	—	—	—
45	0.75	RD/L-GN	3140	II	—	Battery Positive Voltage	45	0.75	RD/L-GN	3140	VI	—
46	0.5	RD/ VT	3340	II	—	Battery Positive Voltage	46	0.5	RD/ VT	3340	VI	—
47	0.35	VT/ GY	539	II	—	Run/Crank Ignition 1 Voltage	47	0.35	VT/ GY	539	VI	—
48	0.5	RD/ WH	640	II	—	Battery Positive Voltage	48	0.5	RD/ WH	640	VI	—

X204 Body Harness to HVAC Harness (LWN)



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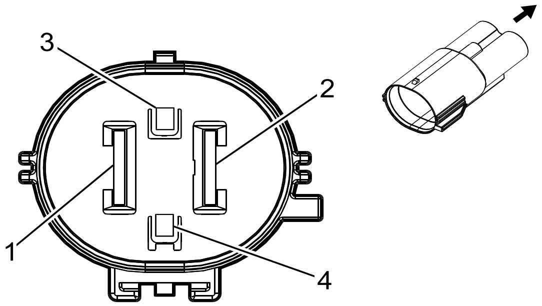


3931603

Connector Part Information

Harness Type: Body
OEM Connector: 7287-1405-80
Service Connector: 19352489
Description: 4-Way F 1.5, 9.5 Series, Sealed (BN)

Connector Part Information

Harness Type: HVAC
OEM Connector: 7286-1397-30
Service Connector: Service by Harness - See Part Catalog
Description: 4-Way M 1.5, 9.5 Series, Sealed (BK)

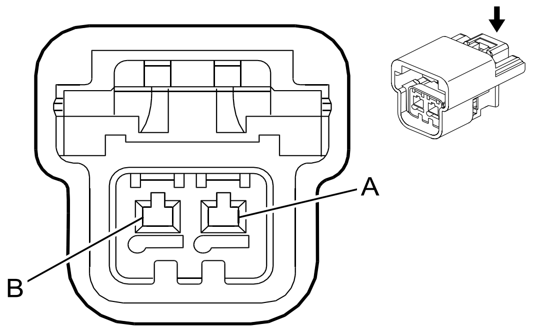
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	-	No Tool Required	Not Required	Not Required	Not Required	Not Required
II	Not Required	-	No Tool Required	Not Required	Not Required	Not Required	Not Required

X204 Body Harness to HVAC Harness (LWN)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	10	BK	1350	I	—	Ground	1	10	BK/ GY	—	II	—
2	10	RD/ GY	4840	I	—	Battery Positive Voltage	2	10	RD/ BU	—	II	—
3 - 4	—	—	—	—	—	Not Occupied	3 - 4	—	—	—	—	—

X206 Instrument Panel Harness to HVAC Harness



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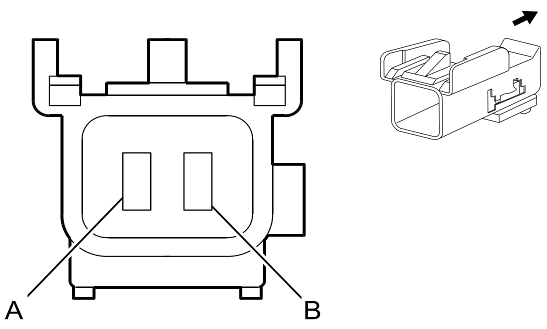


872877

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 13668003
Service Connector: 13587145
Description: 2-Way F 150 GT FBT Series (BK)

Connector Part Information

Harness Type: HVAC
OEM Connector: 15332130
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way M 150 GT Series (BK)

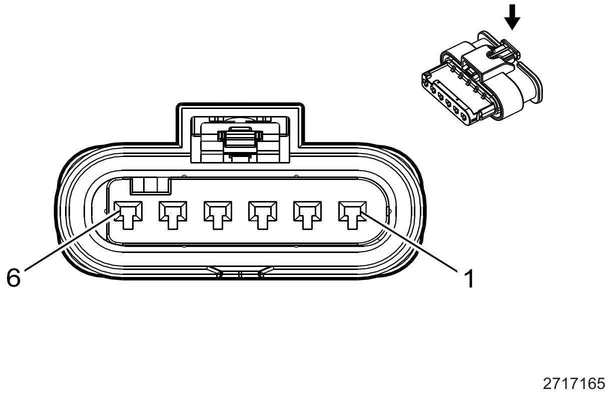
Terminal Part Information

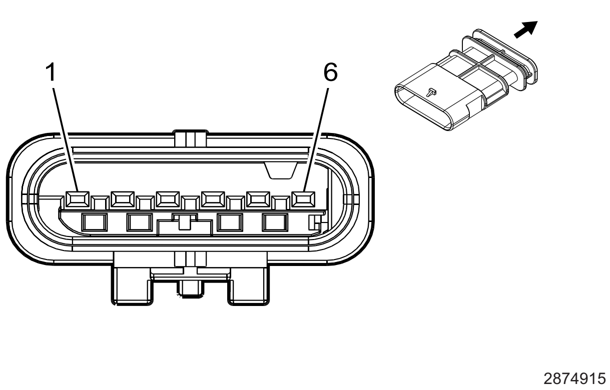
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-2A (GY)	No Tool Required	Not Required	Not Required	Not Required	Not Required
II	Not Required	-	No Tool Required	Not Required	Not Required	Not Required	Not Required

X206 Instrument Panel Harness to HVAC Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
A	—	—	—	—	—	Not Occupied	A	—	—	—	—	—
B	0.5	BN	518	I	—	Lower Left Air Temperature Sensor Signal	B	20	BN	518	II	—

X207 Instrument Panel Harness to Passenger Air Bag Extension Harness





Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 1-2141530-5
Service Connector: 19300377
Description: 6-Way F 1.2 MCP Series, Sealed (YE)

Connector Part Information

Harness Type: Passenger Air Bag Extension
OEM Connector: Not Available
Service Connector: Service by Harness - See Part Catalog
Description: 6-Way M

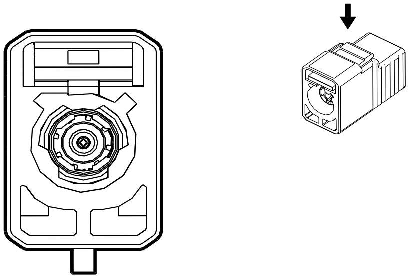
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-16 (LT GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required
II	Not Required	J-35616-17 (LT GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

X207 Instrument Panel Harness to Passenger Air Bag Extension Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	0.35	YE/ OG	3025	I	—	Passenger IP Module Stage 1 High Control	1	0.35	YE/ OG	3025	II	—
2	0.35	OG/ WH	3024	I	—	Passenger IP Module Stage 1 Low Control	2	0.35	OG/ WH	3024	II	—
3	0.35	GY/ OG	3027	I	—	Passenger IP Module Stage 2 High Control	3	0.35	GY/ OG	3027	II	—
4	0.35	OG/ VT	3026	I	—	Passenger IP Module Stage 2 Low Control	4	0.35	OG/ VT	3026	II	—
5	0.5	BK/ WH	2051	I	—	Signal Ground	5	0.5	BK/ WH	2051	II	—
6	—	—	—	—	—	Not Occupied	6	—	—	—	—	—

X208 Instrument Panel Harness to Body Harness



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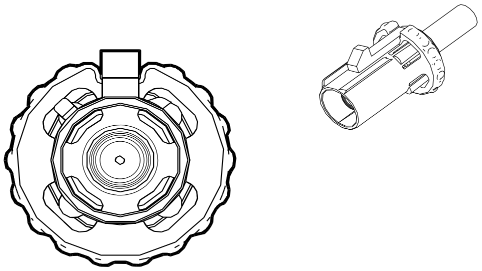


4109605

Connector Part Information

Harness Type: Instrument Panel COAX

OEM Connector: 13581683

Service Connector: Service by Cable Assembly — See Part Catalog

Description: 1-Way F Coax Type (BK)

Connector Part Information

Harness Type: Body COAX

OEM Connector: 13581672

Service Connector: Service by Cable Assembly — See Part Catalog

Description: 1-Way M Coax Type (BK)

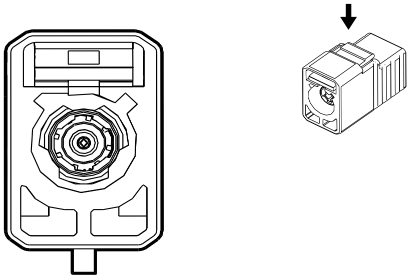
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	No Tool Required	No Tool Required	Not Required	Not Required	Not Required	Not Required

X208 Instrument Panel Harness to Body Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
—	—	Coax	—	I	—	(ISRVM) Camera Video Signal	—	—	Coax	—	I	—

X208 Instrument Panel Harness to Body Harness



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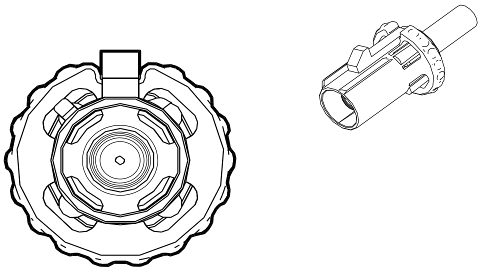


4109605

Connector Part Information

Harness Type: Instrument Panel COAX

OEM Connector: 13581683

Service Connector: Service by Cable Assembly — See Part Catalog

Description: 1-Way F Coax Type (BK)

Connector Part Information

Harness Type: Body COAX

OEM Connector: 13581672

Service Connector: Service by Cable Assembly — See Part Catalog

Description: 1-Way M Coax Type (BK)

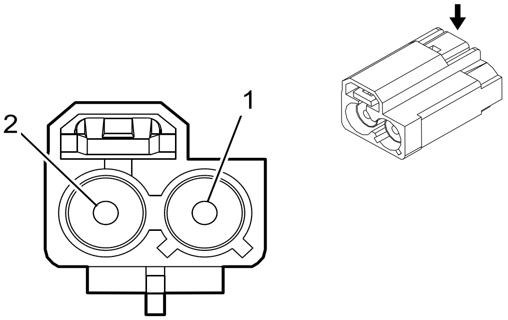
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	No Tool Required	No Tool Required	Not Required	Not Required	Not Required	Not Required

X208 Instrument Panel Harness to Body Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
—	—	Coax	—	I	—	(ISRVM) Camera Video Signal	—	—	Coax	—	I	—

X218 Instrument Panel Harness to Body Harness



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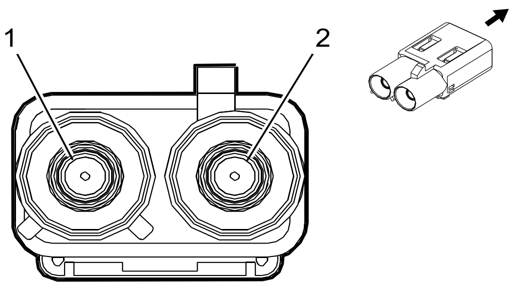


4560903

Connector Part Information

Harness Type: Instrument Panel COAX
OEM Connector: 13585485
Service Connector: Service by Cable Assembly — See Part Catalog
Description: 2-Way F Coax Type (CU)

Connector Part Information

Harness Type: Body COAX
OEM Connector: 13581974
Service Connector: Service by Cable Assembly — See Part Catalog
Description: 2-Way M Coax Type (CU)

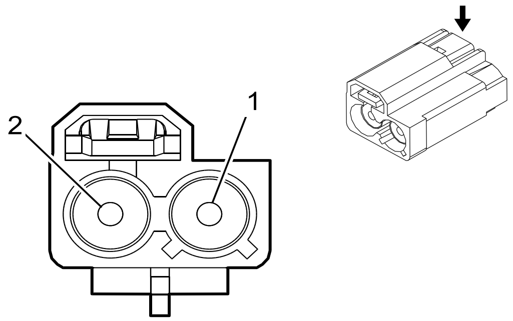
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	No Tool Required	No Tool Required	Not Required	Not Required	Not Required	Not Required

X218 Instrument Panel Harness to Body Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
—	—	Coax	—	I	—	(AM/FM) Antenna RF Signal	—	—	Coax	—	I	—

X218 Instrument Panel Harness to Body Harness



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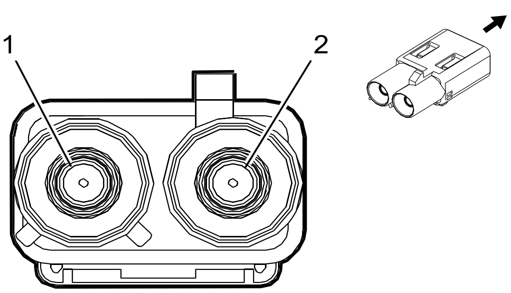


4560903

Connector Part Information

Harness Type: Instrument Panel COAX

OEM Connector: 13585485

Service Connector: Service by Cable Assembly — See Part Catalog

Description: 2-Way F Coax Type (CU)

Connector Part Information

Harness Type: Body COAX

OEM Connector: 13581974

Service Connector: Service by Cable Assembly — See Part Catalog

Description: 2-Way M Coax Type (CU)

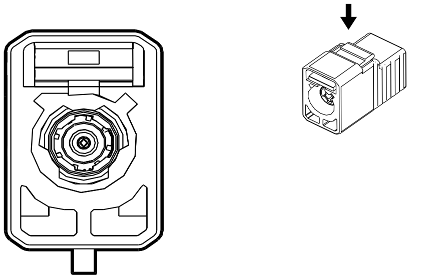
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	No Tool Required	No Tool Required	Not Required	Not Required	Not Required	Not Required

X218 Instrument Panel Harness to Body Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
—	—	Coax	—	I	—	(AM/FM) Antenna RF Signal	—	—	Coax	—	I	—

X219 Instrument Panel Harness to Body Harness



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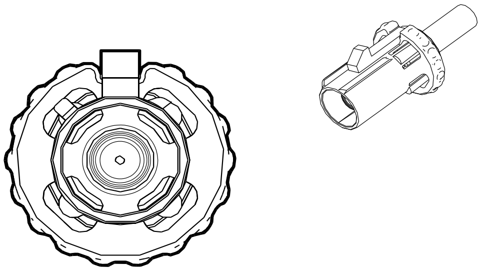


4109605

Connector Part Information

Harness Type: Instrument Panel COAX

OEM Connector: 13581685

Service Connector: Service by Cable Assembly — See Part Catalog

Description: 1-Way F Coax Type (BK)

Connector Part Information

Harness Type: Body COAX

OEM Connector: 13581674

Service Connector: Service by Cable Assembly — See Part Catalog

Description: 1-Way M Coax Type (BK)

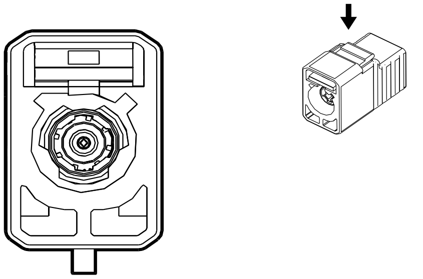
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	No Tool Required	No Tool Required	Not Required	Not Required	Not Required	Not Required

X219 Instrument Panel Harness to Body Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
—	—	Coax	—	I	—	(AM/FM) Antenna RF Signal	—	—	Coax	—	I	—

X219 Instrument Panel Harness to Body Harness



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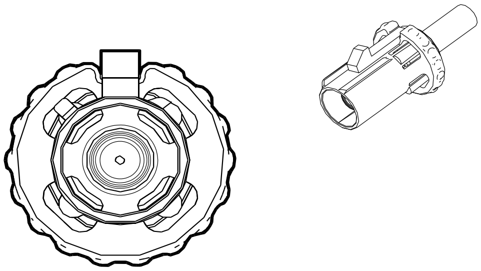


4109605

Connector Part Information

Harness Type: Instrument Panel COAX

OEM Connector: 13581685

Service Connector: Service by Cable Assembly — See Part Catalog

Description: 1-Way F Coax Type (BK)

Connector Part Information

Harness Type: Body COAX

OEM Connector: 13581674

Service Connector: Service by Cable Assembly — See Part Catalog

Description: 1-Way M Coax Type (BK)

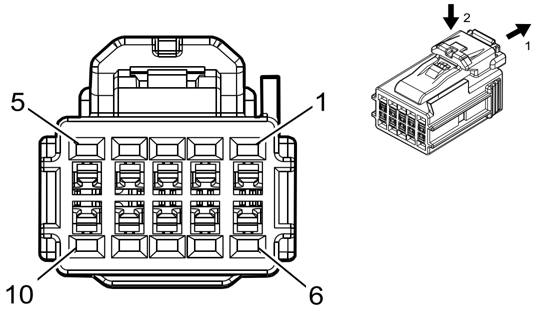
Terminal Part Information

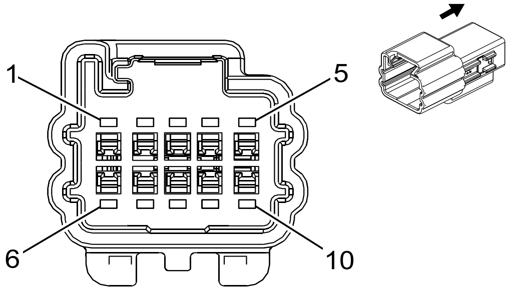
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	No Tool Required	No Tool Required	Not Required	Not Required	Not Required	Not Required

X219 Instrument Panel Harness to Body Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
—	—	Coax	—	I	—	(AM/FM) Antenna RF Signal	—	—	Coax	—	I	—

X300 Headliner Harness to Body Harness





Connector Part Information

Harness Type: Headliner
OEM Connector: 6098-8447
Service Connector: 13517411
Description: 10-Way F 1.2 Series (BK)

Connector Part Information

Harness Type: Body
OEM Connector: 6098-7709
Service Connector: 13595576
Description: 10-Way M 1.2 Series (BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	19300649	J-35616-16 (LT GN)	J-38125-553	Not Available	Not Available	Not Available	Not Available
II	19352074	J-35616-17 (LT GN)	J-38125-12A	Not Available	Not Available	Not Available	Not Available

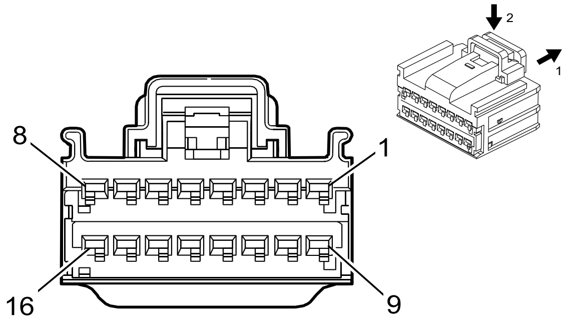
X300 Headliner Harness to Body Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	0.35	L-GN/WH	2514	I	—	Keypad Signal	1	0.35	L-GN/WH	2514	II	—
2	—	—	—	—	—	Not Occupied	2	—	—	—	—	—
3	0.35	Bare	1782	I	—	Low Reference	3	0.35	Bare	1782	II	—
4	0.35	BK/BN	654	I	—	Cellular Telephone Microphone Low Reference	4	0.35	BK/BN	654	II	—
5	0.35	L-BU	655	I	—	Cellular Telephone Microphone Signal	5	0.35	L-BU	655	II	—
6	0.5	L-GN/BK	2515	I	—	Keypad Control	6	0.5	L-GN/BK	2515	II	—
7	0.35	BN/WH	2517	I	—	Keypad Red LED Control	7	0.35	BN/WH	2517	II	—
8	0.35	YE/VT	2516	I	—	Keypad Green LED Control	8	0.35	YE/VT	2516	II	—
9	0.35	VT/YE	7043	I	—	Microphone (+) Signal	9	0.35	VT/YE	7043	II	—

X300 Headliner Harness to Body Harness (cont'd)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
10	0.35	L-BU/ BK	7044	I	—	Microphone (-) Low Reference	10	0.35	L-BU/ BK	7044	II	—

X300 Headliner Harness to Body Harness (IOR)



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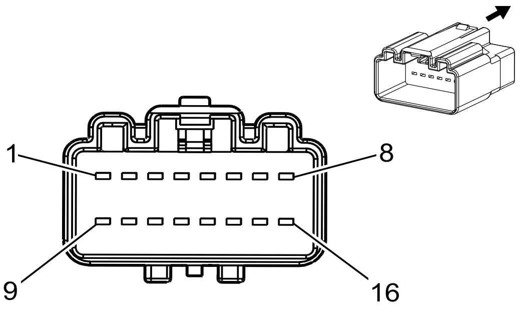


1483278

Connector Part Information

Harness Type: Headliner
OEM Connector: 15512506
Service Connector: 13591061
Description: 16-Way F 1.5 OCS Series (BK)

Connector Part Information

Harness Type: Body
OEM Connector: 7282-6453-60
Service Connector: 89047072
Description: 16-Way M 1.5 Kaizen Series (GN)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	19301767	J-35616-2A (GY)	J-38125-560	Not Available	Not Available	Not Available	Not Available
II	13575818	J-35616-3 (GY)	J-38125-553	Not Available	Not Available	Not Available	Not Available

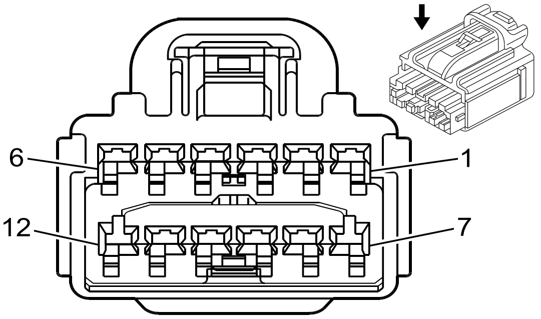
X300 Headliner Harness to Body Harness (IOR)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	0.35	BK/BN	654	I	—	Cellular Telephone Microphone Low Reference	1	0.35	BK/BN	654	II	—
2	0.5	GN/BK	2515	I	—	Keypad Control	2	0.5	GN/BK	2515	II	—
3	0.35	GN/WH	2514	I	—	Keypad Signal	3	0.35	GN/WH	2514	II	—
4	0.35	YE/VT	2516	I	—	Keypad Green LED Control	4	0.35	YE/VT	2516	II	—
5	0.35	BN/WH	2517	I	—	Keypad Red LED Control	5	0.35	BN/WH	2517	II	—
6	0.35	YE/RD	597	I	—	5V Reference	6	0.35	YE/RD	597	II	—
7	0.35	BK/BU	7566	I	—	Humidity/Windscreen Temp Sensor Low Reference	7	0.35	BK/BU	7566	II	—
8	0.35	GY/GN	7565	I	—	Windscreen Temp Sensor Signal	8	0.35	GY/GN	7565	II	—

X300 Headliner Harness to Body Harness (IOR) (cont'd)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
9	0.35	BU	655	I	—	Cellular Telephone Microphone Signal	9	0.35	BU	655	II	—
10	0.35	Bare	1782	I	—	Low Reference	10	0.35	Bare	1782	II	—
11	0.35	BK/WH	3451	I	—	Signal Ground	11	0.35	BK/WH	3451	II	—
12	0.35	RD/GN	3140	I	—	Battery Positive Voltage	12	0.35	RD/GN	3140	II	—
13	0.35	GY/WH	3153	I	—	Lane Departure Warning Disable Switch Signal	13	0.35	GY/WH	3153	II	—
14	0.35	WH	3152	I	—	Lane Departure Warning Indicator Control	14	0.35	WH	3152	II	—
15	0.35	GY/BU	7564	I	—	Humidity Sensor Signal	15	0.35	GY/BU	7564	II	—
16	0.35	YE/BU	3197	I	—	Humidity Temperature Sensor Signal	16	0.35	YE/BU	3197	II	—

X300 Headliner Harness to Body Harness (IOS/IOT)



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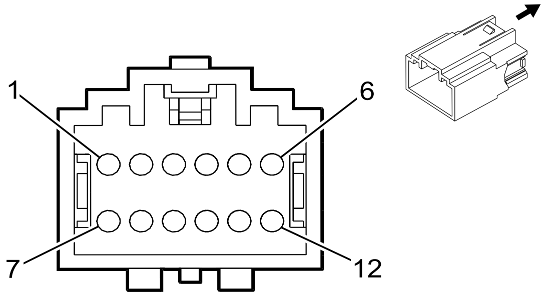


3240100

Connector Part Information

Harness Type: Right Rear Door
OEM Connector: 7283-3442-40
Service Connector: Service by Harness - See Part Catalog
Description: 12-Way F YESC Kaizen Series (L-GY)

Connector Part Information

Harness Type: Body
OEM Connector: 7282-3442-40
Service Connector: 88988266
Description: 12-Way M 1.5 Series (L-GY)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-2A (GY)	No Tool Required	Not Required	Not Required	Not Required	Not Required
II	13575818	J-35616-3 (GY)	J-38125-553	Not Available	Not Available	Not Available	Not Available
III	19329753	J-35616-3 (GY)	J-38125-12A	Not Available	Not Available	Not Available	Not Available

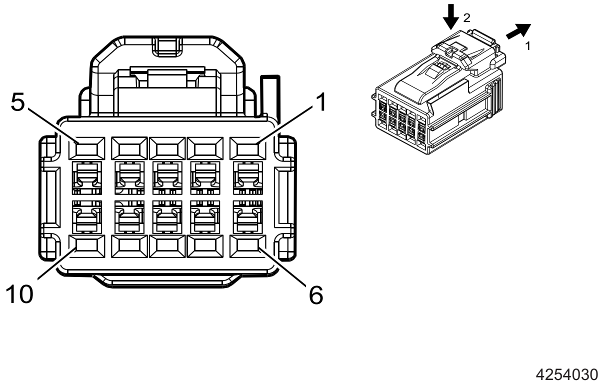
X300 Headliner Harness to Body Harness (IOS/IOT)

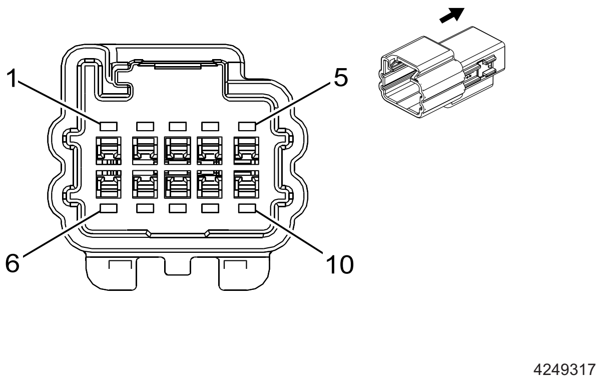
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	—	—	—	—	—	Not Occupied	1	—	—	—	—	—
2	0.5	OG/ BN	3479	I	—	Passenger Seat Belt Anchor Pretensioner High Control	2	0.35	OG/ BN	3479	III	—
3	0.5	OG/ L-GN	3475	I	—	Passenger Seat Belt Retractor Pretensioner High Control	3	0.35	OG/ L-GN	3475	III	—
4	1	L-BU/ BK	115	I	—	Right Rear Speaker Signal (-)	4	1	L-BU/ BK	115	II	—
5	0.35	GY	748	I	—	Right Rear Door Ajar Switch Signal	5	0.35	GY	748	II	—
6 - 7	—	—	—	—	—	Not Occupied	6 - 7	—	—	—	—	—

X300 Headliner Harness to Body Harness (IOS/IOT) (cont'd)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
8	0.5	GY/ OG	3480	I	—	Passenger Seat Belt Anchor Pretensioner Low Control	8	0.35	GY/ OG	3480	III	—
9	0.5	WH/ OG	3476	I	—	Passenger Seat Belt Retractor Pretensioner Low Control	9	0.35	WH/ OG	3476	III	—
10	1	WH	46	I	—	Right Rear Speaker Control (+)	10	1	WH	46	II	—
11	0.35	BK	3450	I	—	Ground	11	0.5	BK	3450	II	—
12	—	—	—	—	—	Not Occupied	12	—	—	—	—	—

X300 Headliner Harness to Body Harness (UE1)





Connector Part Information

Harness Type: Headliner
OEM Connector: 6098-8447
Service Connector: 13517411
Description: 10-Way F 1.2 Series (BK)

Connector Part Information

Harness Type: Body
OEM Connector: 6098-7709
Service Connector: 13595576
Description: 10-Way M 1.2 Series (BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	19300649	J-35616-16 (LT GN)	J-38125-553	Not Available	Not Available	Not Available	Not Available
II	19352074	J-35616-17 (LT GN)	J-38125-12A	Not Available	Not Available	Not Available	Not Available

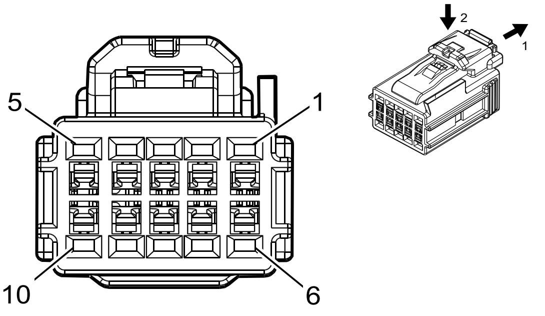
X300 Headliner Harness to Body Harness (UE1)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	0.35	GN/WH	2514	I	—	Keypad Signal	1	0.35	GN/WH	2514	II	—
2	—	—	—	—	—	Not Occupied	2	—	—	—	—	—
3	0.35	Bare	1782	I	—	Low Reference	3	0.35	Bare	1782	II	—
4	0.35	BK/BN	654	I	—	Cellular Telephone Microphone Low Reference	4	0.35	BK/BN	654	II	—
5	0.35	BU	655	I	—	Cellular Telephone Microphone Signal	5	0.35	BU	655	II	—
6	0.5	GN/BK	2515	I	—	Keypad Control	6	0.5	GN/BK	2515	II	—
7	0.35	BN/WH	2517	I	—	Keypad Red LED Control	7	0.35	BN/WH	2517	II	—
8	0.35	YE/VT	2516	I	—	Keypad Green LED Control	8	0.35	YE/VT	2516	II	—
9	0.35	VT/YE	7043	I	—	Microphone (+) Signal	9	0.35	VT/YE	7043	II	—

X300 Headliner Harness to Body Harness (UE1) (cont'd)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
10	0.35	BU/ BK	7044	I	—	Microphone (-) Low Reference	10	0.35	BU/ BK	7044	II	—

X301 Body Harness to Headliner Harness



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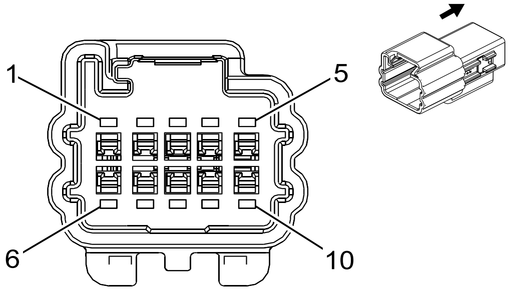

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Connector Part Information

Harness Type: Body
OEM Connector: 6098-8447
Service Connector: 13517411
Description: 10-Way F 1.2 Series (BK)

Connector Part Information

Harness Type: Headliner
OEM Connector: 6098-7709
Service Connector: 13595576
Description: 10-Way M 1.2 Series (BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	19299859	J-35616-65B (LT BU)	J-38125-215A	SAITW-A03T-064	Delphi 20	J	J
II	19300649	J-35616-16 (LT GN)	J-38125-11A	Not Available	Not Available	Not Available	Not Available
III	19300649	J-35616-16 (LT GN)	J-38125-553	Not Available	Not Available	Not Available	Not Available
IV	19352074	J-35616-17 (LT GN)	J-38125-12A	Not Available	Not Available	Not Available	Not Available
V	19369715	J-35616-17 (LT GN)	J-38125-12A	Not Available	Not Available	Not Available	Not Available

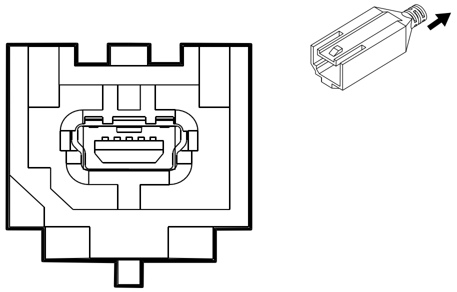
X301 Body Harness to Headliner Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	0.5	YE	6817	III	—	LED Backlight Dimming Control	1	0.5	YE	6817	IV	—
2	0.75	WH/BN	6815	II	—	Inadvertent Power Control	2	0.5	WH/BN	6815	IV	—
3	0.5	GY	157	III	—	Interior Lamp Control	3	0.5	GY	157	IV	—
4	0.75	BK	3150	II	—	Ground	4	0.75	BK	3150	V	—
5	0.35	VT/WH	1139	III	—	Run/Crank Ignition 1 Voltage	5	0.35	VT/WH	1139	IV	—
6	0.35	L-BU	2307	III	—	Passenger Air Bag On Indicator Control	6	0.35	L-BU	2307	IV	—

X301 Body Harness to Headliner Harness (cont'd)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
7	0.35	L-GN	2308	III	—	Passenger Air Bag Off Indicator Control	7	0.35	L-GN	2308	IV	—
8	0.35	VT/WH	5234	III	—	Passenger Seat Belt Indicator Control	8	0.35	VT/WH	5234	IV	—
9	0.35 0.35	GY/L-GN GY/L-GN	328 328	I III	C74 -C74	Interior Lamp Defeat Switch Signal Interior Lamp Defeat Switch Signal	9	0.35	GY/L-GN	328	IV	—
10	0.35	GY	156	III	—	Courtesy Lamp Switch Signal	10	0.35	GY	156	IV	—

X302 Floor Console Harness to Instrument Panel Harness



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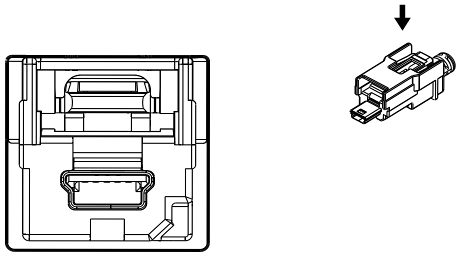


2807425

Connector Part Information

Harness Type: Floor Console USB

OEM Connector: 13584760

Service Connector: Service by Cable Assembly — See Part Catalog

Description: 5-Way F 2.0 Mini-B USB Type (BK)

Connector Part Information

Harness Type: Instrument Panel USB

OEM Connector: 13584746

Service Connector: Service by Cable Assembly — See Part Catalog

Description: 5-Way M 2.0 Mini-B USB Type (BK)

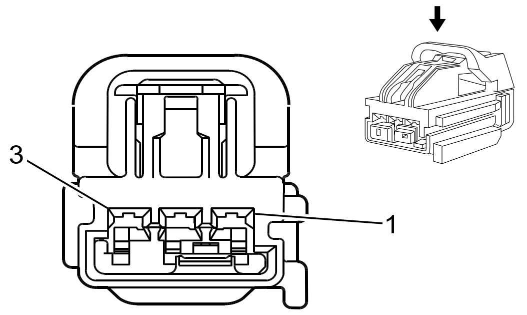
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	No Tool Required	No Tool Required	Not Required	Not Required	Not Required	Not Required

X302 Floor Console Harness to Instrument Panel Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
—	—	USB	—	I	—	USB Serial Data	—	—	USB	—	I	—

X303 Body Harness to Center High Mounted Stop Lamp Harness



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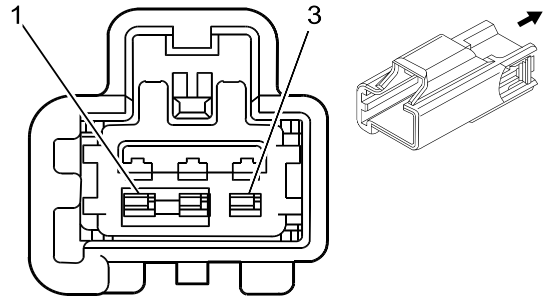


1787800

Connector Part Information

Harness Type: Body
OEM Connector: 7283-3440-40
Service Connector: 19149536
Description: 3-Way F 1.5 Kaizen Series (L-GY)

Connector Part Information

Harness Type: Center High Mounted Stop Lamp
OEM Connector: Not Available
Service Connector: Service by Harness - See Part Catalog
Description: 3-Way M

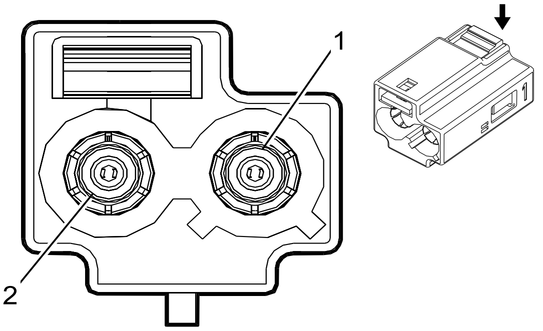
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-2A (GY)	No Tool Required	Not Required	Not Required	Not Required	Not Required
II	Not Required	J-35616-3 (GY)	No Tool Required	Not Required	Not Required	Not Required	Not Required

X303 Body Harness to Center High Mounted Stop Lamp Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	0.75	WH/ VT	1430	I	—	Exterior Courtesy Lamp Control	1	0.75	WH/ VT	1430	II	—
2	0.35	VT/ GY	1054	I	—	Stop Lamp Control	2	0.35	VT/ GY	1054	II	—
3	0.75	BK	3150	I	—	Ground	3	0.75	BK	3150	II	—

X304 Body Harness to Antenna Harness (U2K)



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3969442

Connector Part Information

Harness Type: Body COAX

OEM Connector: 13521716

Service Connector: Service by Cable Assembly — See Part Catalog

Description: 2-Way F Coax Type (CU)

Connector Part Information

Harness Type: Antenna COAX

OEM Connector: Not Available

Service Connector: Service by Cable Assembly — See Part Catalog

Description: 2-Way M

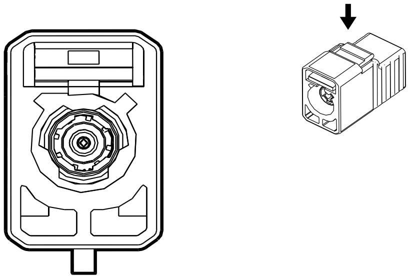
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	No Tool Required	No Tool Required	Not Required	Not Required	Not Required	Not Required

X304 Body Harness to Antenna Harness (U2K)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
—	—	Coax	—	I	—	(XM +/-HD) Coaxial Antenna XM Signal	—	—	Coax	—	I	—

X304 Body Harness to Antenna Harness (-U2K)



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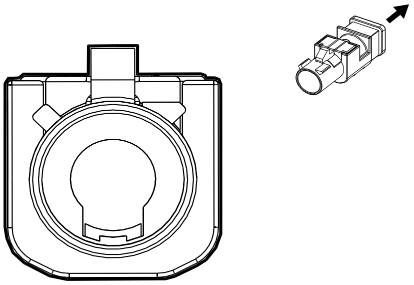


3214012

Connector Part Information

Harness Type: Body COAX

OEM Connector: 13581687

Service Connector: Service by Cable Assembly — See Part Catalog

Description: 1-Way F Coax Type (BK)

Connector Part Information

Harness Type: Antenna COAX

OEM Connector: Not Available

Service Connector: Service by Cable Assembly — See Part Catalog

Description: 1-Way M

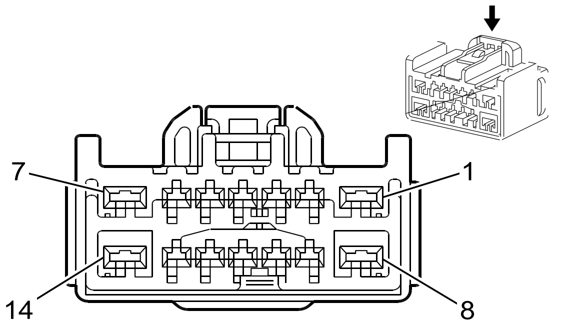
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	No Tool Required	No Tool Required	Not Required	Not Required	Not Required	Not Required

X304 Body Harness to Antenna Harness (-U2K)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
—	—	Coax	—	I	—	(AM/FM) Antenna RF Signal	—	—	Coax	—	I	—

X305 Instrument Panel Harness to Floor Console Harness



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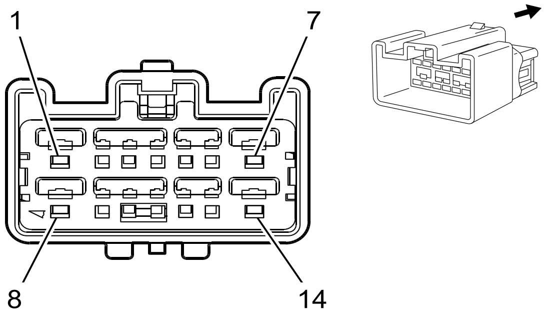


1283905

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 7283-6447-40
Service Connector: 88956524
Description: 14-Way F 1.5, 2.8 Series (L-GY)

Connector Part Information

Harness Type: Floor Console
OEM Connector: 7282-6447-40
Service Connector: Service by Harness - See Part Catalog
Description: 14-Way M 1.5, 2.8 Series (L-GY)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13575850	J-35616-14 (GN)	J-38125-557	Not Available	Not Available	Not Available	Not Available
II	19368264	J-35616-35 (VT)	J-38125-11A	7116-4112-02	Yazaki 9	Not Available	Not Available
III	Not Required	J-35616-3 (GY)	No Tool Required	Not Required	Not Required	Not Required	Not Required
IV	Not Required	J-35616-5 (PU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

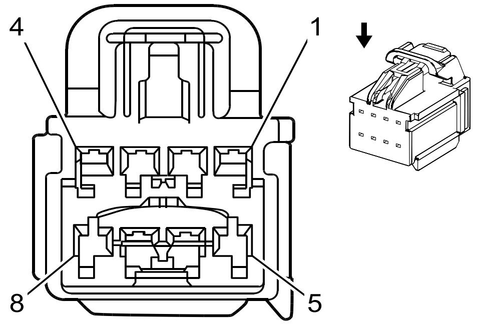
X305 Instrument Panel Harness to Floor Console Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	1.5	BK	2050	II	—	Ground	1	1.5	BK	2050	IV	—
2	0.5	BK/WH	2051	I	—	Signal Ground Signal Ground	2	0.35 0.5	BK/WH BK/WH	2051 2051	III III	USS N8D-USS
3 - 5	—	—	—	—	—	Not Occupied	3 - 5	—	—	—	—	—
6	0.5	RD/VT	340	I	—	Battery Positive Voltage	6	0.5	RD/VT	340	III	—
7	1.5	VT	1701	II	—	Retained Accessory Power Ignition	7	1.5	VT	1701	IV	—
8	1.5	BK	2050	II	—	Ground	8	1.5	BK	2050	IV	—
9 - 13	—	—	—	—	—	Not Occupied	9 - 13	—	—	—	—	—

X305 Instrument Panel Harness to Floor Console Harness (cont'd)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
14	1.5	VT	2101	II	—	Retained Accessory Power Fuse Ignition	14	1.5	VT	2101	IV	—

X306 Instrument Panel Harness to Floor Console Harness



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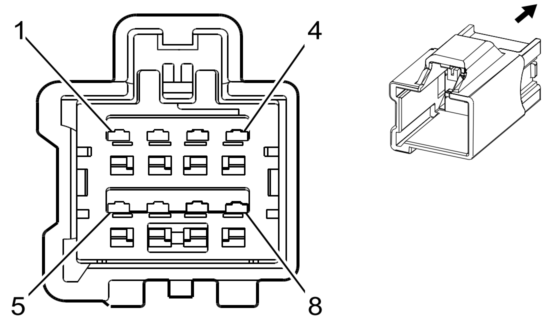


1849807

Connector Part Information

- Harness Type: Instrument Panel
- OEM Connector: 7283-3441-40
- Service Connector: 19153166
- Description: 8-Way F 1.5 YESC Kaizen Series (L-GY)

Connector Part Information

- Harness Type: Floor Console
- OEM Connector: 7282-3441-40
- Service Connector: Service by Harness - See Part Catalog
- Description: 8-Way M 1.5 YESC Kaizen Series (L-GY)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-2A (GY)	No Tool Required	Not Required	Not Required	Not Required	Not Required
II	Not Required	J-35616-3 (GY)	No Tool Required	Not Required	Not Required	Not Required	Not Required

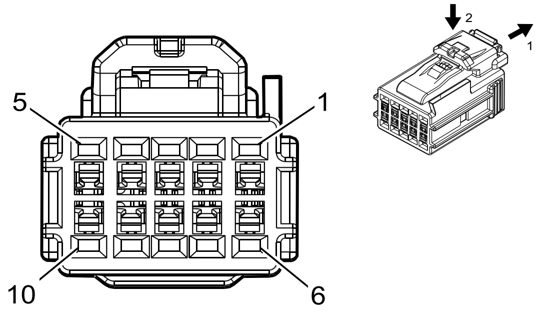
X306 Instrument Panel Harness to Floor Console Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	0.35	VT	801	I	—	Retained Accessory Power Fuse Control	1	0.35	VT	801	II	—
2	0.5	L-GN/L-BU	6133	I	—	Local Interconnect Network Serial Data Bus 2	2	0.5	L-GN/L-BU	6133	II	—
3	0.75	BK	2050	I	—	Ground Ground	3	0.35 0.5	BK BK	2050 2050	II II	-K4C+(M5T/MYB) K4C+(M5T/MYB)
4	0.5	VT	4601	I	—	Battery Positive Voltage Retained Accessory Power Fused Control	4	0.5 0.5	RD/VT VT	340 4601	II II	-K4C K4C
5	0.35	WH	6816	I	—	Indicator Dimming Control	5	0.35	WH	6816	II	—

X306 Instrument Panel Harness to Floor Console Harness (cont'd)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
6	0.35	VT/ YE	5526	I	—	Tap Up/Tap Down Switch Signal	6	0.35	VT/ YE	5526	II	—
7	0.5	VT/ BK	7553	I	—	Park Lock Solenoid Control	7	0.5	VT/ BK	7553	II	—
8	0.5	WH/ VT	5905	I	—	Key Capture/ Column Lock Shift Position Signal	8	0.5	WH/ VT	5905	II	—

X307 Headliner Harness to Body Harness



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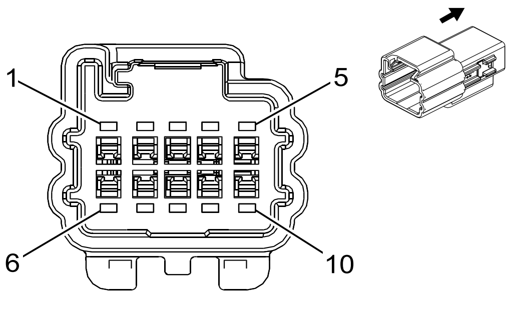


4249317

Connector Part Information

Harness Type: Headliner
OEM Connector: 6098-8447
Service Connector: 13517411
Description: 10-Way F 1.2 Series (BK)

Connector Part Information

Harness Type: Body
OEM Connector: 6098-7709
Service Connector: 13595576
Description: 10-Way M 1.2 Series (BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	19300649	J-35616-16 (LT GN)	J-38125-553	Not Available	Not Available	Not Available	Not Available
II	19352074	J-35616-17 (LT GN)	J-38125-12A	Not Available	Not Available	Not Available	Not Available

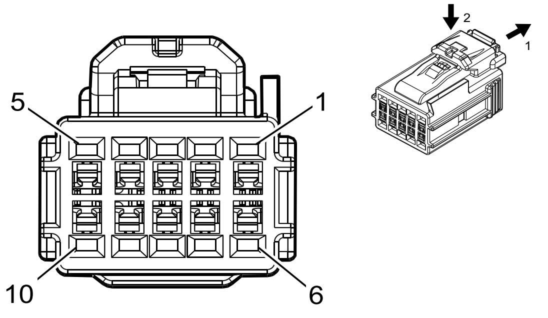
X307 Headliner Harness to Body Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	—	—	—	—	—	Not Occupied	1	—	—	—	—	—
2	0.35	WH	3152	I	—	Lane Departure Warning Indicator Control	2	0.35	WH	3152	II	—
3	0.35	GY/WH	3153	I	—	Lane Departure Warning Disable Switch Signal	3	0.35	GY/WH	3153	II	—
4	0.35	BK/WH	3451	I	—	Signal Ground	4	0.35	BK/WH	3451	II	—
5	0.35	RD/L-GN	3140	I	—	Battery Positive Voltage	5	0.35	RD/L-GN	3140	II	—
6	0.35	YE/RD	597	I	—	5V Reference	6	0.35	YE/RD	597	II	—
7	0.35	BK/L-BU	7566	I	—	Humidity/Windscreen Temp Sensor Low Reference	7	0.35	BK/L-BU	7566	II	—

X307 Headliner Harness to Body Harness (cont'd)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
8	0.35	YE/L-BU	3197	I	—	Humidity Temperature Sensor Signal	8	0.35	YE/L-BU	3197	II	—
9	0.35	GY/L-BU	7564	I	—	Humidity Sensor Signal	9	0.35	GY/L-BU	7564	II	—
10	0.35	GY/L-GN	7565	I	—	Windscreen Temp Sensor Signal	10	0.35	GY/L-GN	7565	II	—

X308 Headliner Harness to Body Harness



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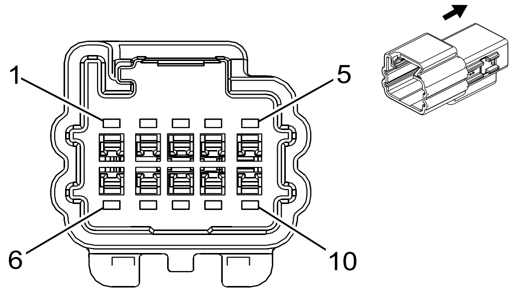


4249317

Connector Part Information

Harness Type: Headliner
OEM Connector: 6098-8447
Service Connector: 13517411
Description: 10-Way F 1.2 Series (BK)

Connector Part Information

Harness Type: Body
OEM Connector: 6098-7709
Service Connector: 13595576
Description: 10-Way M 1.2 Series (BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	19300649	J-35616-16 (LT GN)	J-38125-553	Not Available	Not Available	Not Available	Not Available
II	19352074	J-35616-17 (LT GN)	J-38125-12A	Not Available	Not Available	Not Available	Not Available

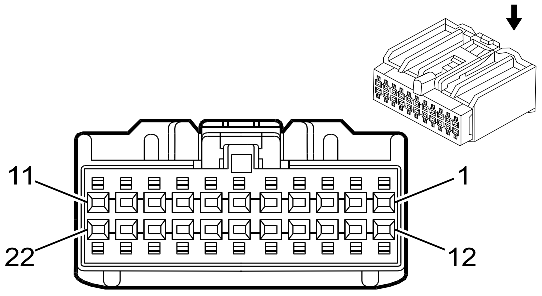
X308 Headliner Harness to Body Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	0.35	GY	3273	I	—	Remote Function Actuator Low Reference	1	0.35	GY	3273	II	—
2	0.35	L-BU/WH	3275	I	—	Remote Function Actuator Receive Signal	2	0.35	L-BU/WH	3275	II	—
3	0.35	YE/L-GN	3274	I	—	Remote Function Actuator Transmit Signal	3	0.35	YE/L-GN	3274	II	—
4	0.35	GY/WH	3272	I	—	Remote Function Actuator Control	4	0.35	GY/WH	3272	II	—
5	—	—	—	—	—	Not Occupied	5	—	—	—	—	—
6	0.5	L-GN	5060	I	—	Low Speed GMLAN Serial Data	6	0.5	L-GN	5060	II	—

X308 Headliner Harness to Body Harness (cont'd)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
7	—	—	—	—	—	Local Interconnect Network Serial Data Bus 1	7	0.5	L-GN/BN	6132	II	—
8	0.5	L-GN/WH	24	I	—	Backup Lamp Control	8	0.5	L-GN/WH	24	II	—
9	0.5	VT/L-GN	1739	I	—	Run/Crank Ignition 1 Voltage	9	0.5	VT/L-GN	1739	II	—
10	0.5	BK	3150	I	—	Ground	10	0.5	BK	3150	II	—

X308 Headliner Harness to Body Harness



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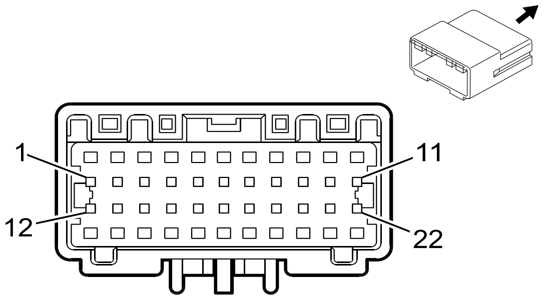


2916467

Connector Part Information

Harness Type: Headliner
OEM Connector: AIT2PB-22-2AK
Service Connector: 13504097
Description: 22-Way F 0.64 Kaizen Series (BK)

Connector Part Information

Harness Type: Body
OEM Connector: 13892299
Service Connector: 13505628
Description: 22-Way M 0.64 Series (BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13575742	J-35616-64B (LT BU)	J-38125-215A	SAIT-A03T-M064	Yazaki 14	P	P
II	13575867	J-35616-64B (LT BU)	J-38125-215A	SAIT-A03T-M064	Yazaki 14	P	P
III	19299859	J-35616-65B (LT BU)	J-38125-215A	SAITW-A03T-064	Delphi 20	J	J
IV	19299859	J-35616-65B (LT BU)	J-38125-215A	SAITW-A03T-064	Delphi 20	Not Available	Not Available

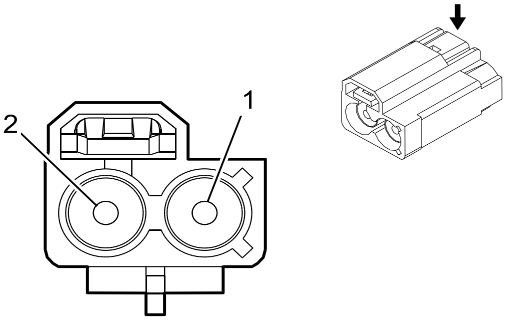
X308 Headliner Harness to Body Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	0.35	GY/WH	3272	II	—	Remote Function Actuator Control	1	0.35	GY/WH	3272	III	—
2	0.35	YE/GN	3274	II	—	Remote Function Actuator Transmit Signal	2	0.35	YE/GN	3274	III	—
3	0.35	BU/WH	3275	II	—	Remote Function Actuator Receive Signal	3	0.35	BU/WH	3275	III	—
4	0.35	GY	3273	II	—	Remote Function Actuator Low Reference	4	0.35	GY	3273	III	—
5	0.5	YE	6817	I	—	LED Backlight Dimming Control	5	0.5	YE	6817	III	—

X308 Headliner Harness to Body Harness (cont'd)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
6	0.5	WH/ BN	6815	I	—	Inadvertent Power Control	6	0.75	WH/ BN	6815	IV	—
7	0.5	GY	157	I	—	Interior Lamp Control	7	0.5	GY	157	III	—
8	0.35	GY/ GN	328	II	—	Interior Lamp Defeat Switch Signal	8	0.35	GY/ GN	328	III	—
9	0.35	GY	156	II	—	Courtesy Lamp Switch Signal	9	0.35	GY	156	III	—
10	0.5	VT/ GN	1739	I	—	Run/Crank Ignition 1 Voltage	10	0.5	VT/ GN	1739	III	—
11	0.5	GN/ WH	24	I	—	Backup Lamp Control	11	0.5	GN/ WH	24	III	—
12	0.75	BK	3150	I	—	Ground	12	0.75	BK	3150	IV	—
13	—	—	—	—	—	Not Occupied	13	—	—	—	—	—
14	0.35	VT/ WH	5234	II	—	Passenger Seat Belt Indicator Control	14	0.35	VT/ WH	5234	III	—
15	0.35	BU	2307	II	—	Passenger Air Bag On Indicator Control	15	0.35	BU	2307	III	—
16	0.35	GN	2308	II	—	Passenger Air Bag Off Indicator Control	16	0.35	GN	2308	III	—
17	0.5	GN	5060	I	—	Low Speed GMLAN Serial Data	17	0.5	GN	5060	III	—
18	—	—	—	—	—	Local Inter-connect Network Serial Data Bus 1	18	0.5	GN/ BN	6132	III	—
19	0.35	VT/ WH	1139	II	—	Run/Crank Ignition 1 Voltage	19	0.35	VT/ WH	1139	III	—
20 - 22	—	—	—	—	—	Not Occupied	20 - 22	—	—	—	—	—

X309 Body Harness to Antenna Harness



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4283324

Connector Part Information

Harness Type: Body COAX

OEM Connector: 13589366

Service Connector: Service by Cable Assembly — See Part Catalog

Description: 2-Way F Coax Type (PU)

Connector Part Information

Harness Type: Antenna COAX

OEM Connector: Not Available

Service Connector: Service by Cable Assembly — See Part Catalog

Description: 2-Way M

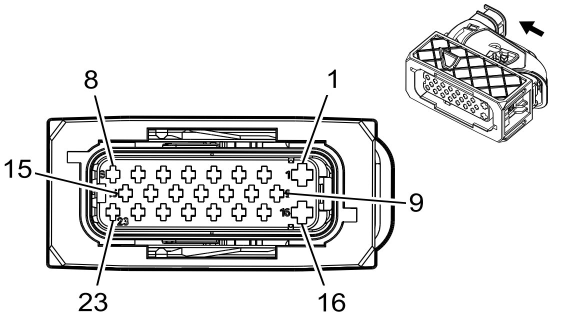
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	No Tool Required	No Tool Required	Not Required	Not Required	Not Required	Not Required

X309 Body Harness to Antenna Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
—	—	Coax	—	I	—	(GPS/Cell) Coaxial Antenna Cell/GPS combined Signal	—	—	Coax	—	I	—

X310 Driver Seat Cushion Harness to Body Harness



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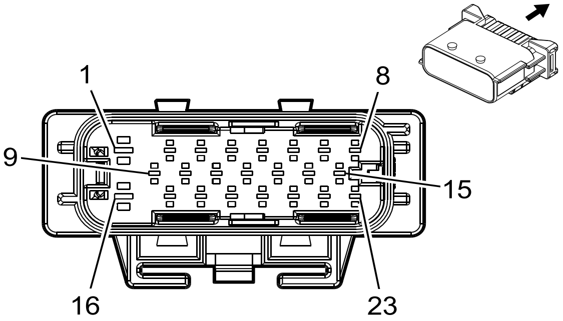

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Connector Part Information

Harness Type: Driver Seat Cushion
OEM Connector: Not Available
Service Connector: Service by Harness - See Part Catalog
Description: 23-Way F

Connector Part Information

Harness Type: Body
OEM Connector: 13750010
Service Connector: 19332380
Description: 23-Way M 1.5 DSQ, 2.8 ATS Series, Sealed (BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-2A (GY)	No Tool Required	Not Required	Not Required	Not Required	Not Required
II	13327188	J-35616-3 (GY)	J-38125-560	Not Available	Not Available	Not Available	Not Available
III	13575574	J-35616-5 (PU)	J-38125-36	Not Available	Not Available	Not Available	Not Available
IV	13579985	J-35616-3 (GY)	J-38125-560	Not Available	Not Available	Not Available	Not Available
V	13582335	J-35616-3 (GY)	J-38125-560	Not Available	Not Available	Not Available	Not Available

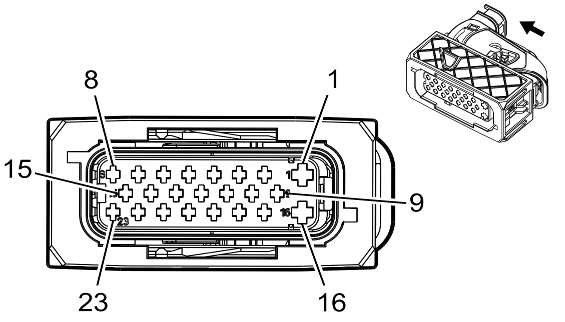
X310 Driver Seat Cushion Harness to Body Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	2.5	RD/YE	5040	I	—	Battery Positive Voltage	1	2.5	RD/YE	5040	III	—
2	0.75	BK/YE	2080	I	—	Driver Heated Seat NTC Low Reference	2	0.75	BK/YE	2080	V	—
3 - 6	—	—	—	—	—	Not Occupied	3 - 6	—	—	—	—	—
7	0.35	YE/OG	3482	I	—	Driver Seat Belt Anchor Pretensioner Low Control	7	0.35	YE/OG	3482	IV	—
8	0.35	OG/YE	3481	I	—	Driver Seat Belt Anchor Pretensioner High Control	8	0.35	OG/YE	3481	IV	—
9	—	—	—	—	—	Not Occupied	9	—	—	—	—	—

X310 Driver Seat Cushion Harness to Body Harness (cont'd)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
10	0.75	VT/ BK	2424	I	—	Driver Heated Back Element Low Reference	10	0.75	VT/ BK	2424	V	—
11	0.35	OG/ BN	238	I	—	Driver Seat Belt Switch Signal	11	0.35	OG/ BN	238	II	—
12	0.35	L-GN/ VT	5906	I	—	Driver Seat Vent Motor Control 1	12	0.35	L-GN/ VT	5906	II	—
13	0.75	L-BU	2425	I	—	Driver Heated Back NTC Signal	13	0.75	L-BU	2425	V	—
14	—	—	—	—	—	Not Occupied	14	—	—	—	—	—
15	0.35	L-GN/ OG	3069	I	—	Driver Side Impact Module Low Control	15	0.35	L-GN/ OG	3069	IV	—
16	2.5	BK	3750	I	—	Ground	16	2.5	BK	3750	III	—
17	0.75	YE/ GY	2079	I	—	Driver Heated Seat NTC Signal	17	0.75	YE/ GY	2079	V	—
18	—	—	—	—	—	Not Occupied	18	—	—	—	—	—
19	0.35	BK/ OG	1363	I	—	Driver Seat Belt Switch Low Reference	19	0.35	BK/ OG	1363	IV	—
20	0.75	VT/ BK	1239	I	—	Run/Crank Ignition 1 Voltage	20	0.75	VT/ BK	1239	V	—
21	0.75	BN/ VT	2077	I	—	Driver Heated Seat Element Control	21	0.75	BN/ VT	2077	V	—
22	0.75	BN	2432	I	—	Driver Heated Back Element Control	22	0.75	BN	2432	V	—
23	0.35	OG/ L-BU	3068	I	—	Driver Side Impact Module High Control	23	0.35	OG/ L-BU	3068	IV	—

X320 Passenger Seat Harness to Body Harness



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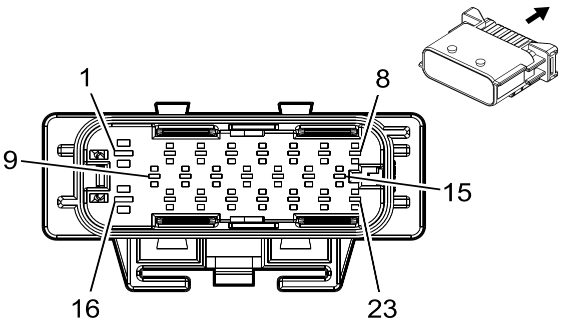


2906943

Connector Part Information

Harness Type: Passenger Seat
OEM Connector: Not Available
Service Connector: Service by Harness - See Part Catalog
Description: 23-Way F

Connector Part Information

Harness Type: Body
OEM Connector: 13750010
Service Connector: 19332380
Description: 23-Way M 1.5 DSQ, 2.8 ATS Series, Sealed (BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-2A (GY)	No Tool Required	Not Required	Not Required	Not Required	Not Required
II	13327188	J-35616-3 (GY)	J-38125-560	Not Available	Not Available	Not Available	Not Available
III	13575574	J-35616-5 (PU)	J-38125-36	Not Available	Not Available	Not Available	Not Available
IV	13579985	J-35616-3 (GY)	J-38125-560	Not Available	Not Available	Not Available	Not Available
V	13582335	J-35616-3 (GY)	J-38125-560	Not Available	Not Available	Not Available	Not Available

X320 Passenger Seat Harness to Body Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	2.5	RD/BN	1440	I	—	Battery Positive Voltage	1	2.5	RD/BN	1440	III	—
2	0.75	BK/YE	2080	I	—	Driver Heated Seat NTC Low Reference	2	0.75	BK/YE	2080	V	—
3	0.75	RD/L-GN	5140	I	—	Battery Positive Voltage	3	0.75	RD/L-GN	5140	V	—
4	—	—	—	—	—	Not Occupied	4	—	—	—	—	—
5	0.5	BK/WH	2251	I	—	Signal Ground	5	0.5	BK/WH	2251	IV	—
6	0.35	L-GN	5060	I	—	Low Speed GMLAN Serial Data	6	0.35	L-GN	5060	II	—

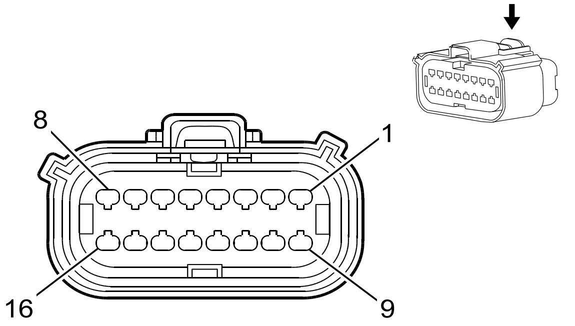
X320 Passenger Seat Harness to Body Harness (cont'd)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
7	0.35	GY/OG	3480	I	—	Passenger Seat Belt Anchor Pretensioner Low Control	7	0.35	GY/OG	3480	IV	—
8	0.35	OG/BN	3479	I	—	Passenger Seat Belt Anchor Pretensioner High Control	8	0.35	OG/BN	3479	IV	—
9	0.75	RD/L-GN	6140	I	—	Battery Positive Voltage	9	0.75	RD/L-GN	6140	V	—
10	0.75	VT/BK	2424	I	—	Driver Heated Back Element Low Reference	10	0.75	VT/BK	2424	V	—
11	0.35	OG/VT	1362	I	—	Passenger Seat Belt Switch Signal	11	0.35	OG/VT	1362	IV	—
12	0.35	RD/L-GN	4440	I	—	Battery Positive Voltage	12	0.35	RD/L-GN	4440	II	—
13	0.75	L-BU	2425	I	—	Driver Heated Back NTC Signal	13	0.75	L-BU	2425	V	—
14	0.35	L-GN/VT	5906	I	—	Driver Seat Vent Motor Control 1	14	0.35	L-GN/VT	5906	II	—
15	0.35	BN/OG	3067	I	—	Passenger Side Impact Module Low Control	15	0.35	BN/OG	3067	IV	—
16	2.5	BK	3850	I	—	Ground	16	2.5	BK	3850	III	—
17	0.75	YE/GY	2079	I	—	Driver Heated Seat NTC Signal	17	0.75	YE/GY	2079	V	—
18	0.5	L-GN/L-BU	6133	I	—	Local Interconnect Network Serial Data Bus 2	18	0.5	L-GN/L-BU	6133	V	—
19	0.35	BK/OG	1361	I	—	Passenger Seat Belt Switch Low Reference	19	0.35	BK/OG	1361	IV	—
20	0.75	VT/BK	1239	I	—	Run/Crank Ignition 1 Voltage	20	0.75	VT/BK	1239	V	—
21	0.75	BN/VT	2077	I	—	Driver Heated Seat Element Control	21	0.75	BN/VT	2077	V	—
22	0.75	BN	2432	I	—	Driver Heated Back Element Control	22	0.75	BN	2432	V	—

X320 Passenger Seat Harness to Body Harness (cont'd)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
23	0.35	OG/ GY	3066	I	—	Passenger Side Impact Module High Control	23	0.35	OG/ GY	3066	IV	—

X400 Rear Fascia Harness to Chassis Harness



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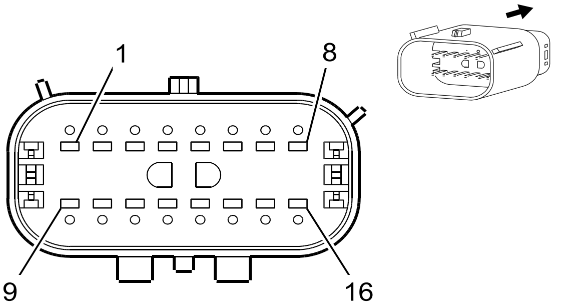


4223713

Connector Part Information

Harness Type: Rear Fascia
OEM Connector: 33472-1607
Service Connector: Service by Harness - See Part Catalog
Description: 16-Way F 150 MX Series, Sealed (L-GY)

Connector Part Information

Harness Type: Chassis
OEM Connector: 33482-1602
Service Connector: 19333320
Description: 16-Way M 150 MX Series, Sealed (GY)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-2A (GY)	No Tool Required	Not Required	Not Required	Not Required	Not Required
II	19119395	J-35616-3 (GY)	J-38125-217	Not Available	Not Available	Not Available	Not Available

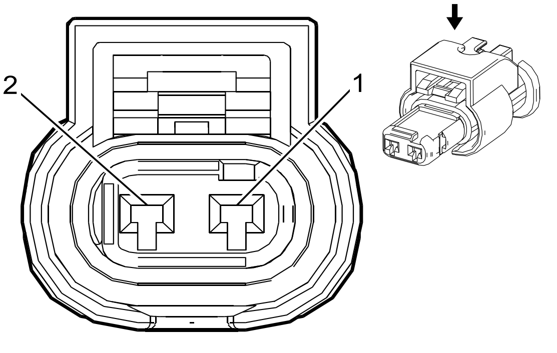
X400 Rear Fascia Harness to Chassis Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	0.5	L-GN/WH	24	I	—	Backup Lamp Control	1	0.5	L-GN/WH	24	II	—
2	0.5	VT/L-GN	1739	I	—	Run/Crank Ignition 1 Voltage	2	0.5	VT/L-GN	1739	II	—
3	0.5	BK/WH	751	I	—	Signal Ground	3	0.5	BK/WH	751	II	—
4	0.5	BK	750	I	—	Ground	4	0.5	BK	750	II	—
5	0.5	L-GN/YE	6846	I	—	Rear License Lamp Control	5	0.5	L-GN/YE	6846	II	—
6	—	—	—	—	—	Not Occupied	6	—	—	—	—	—
7	0.5	BK/GY	2379	I	—	Object Sensor Low Reference	7	0.75	BK/GY	2379	II	—
8	0.5	BN/WH	2374	I	—	Object Sensor Control	8	0.75	BN/WH	2374	II	—
9	0.5	L-GN	6974	I	—	Camera Low Reference	9	0.5	L-GN	6974	II	—
10	0.5	WH/L-BU	6973	I	—	Camera Signal 2	10	0.5	WH/L-BU	6973	II	—
11	0.5	GY/YE	6972	I	—	Camera Signal 2 +	11	0.5	GY/YE	6972	II	—

X400 Rear Fascia Harness to Chassis Harness (cont'd)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
12	—	—	—	—	—	Not Occupied	12	—	—	—	—	—
13	0.5	YE	2375	I	—	Left Rear Corner Object Sensor Signal	13	0.5	YE	2375	II	—
14	0.5	YE/L-BU	2376	I	—	Left Rear Middle Object Sensor Signal	14	0.5	YE/L-BU	2376	II	—
15	0.5	YE/VT	2378	I	—	Right Rear Corner Object Sensor Signal	15	0.5	YE/VT	2378	II	—
16	0.5	YE/WH	2377	I	—	Right Rear Middle Object Sensor Signal	16	0.5	YE/WH	2377	II	—

X401 Cargo Lamp Harness to Chassis Harness



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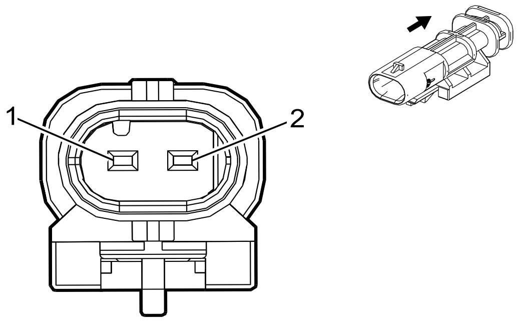


2474755

Connector Part Information

Harness Type: Cargo Lamp
OEM Connector: Not Available
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way F

Connector Part Information

Harness Type: Chassis
OEM Connector: 2203314-1
Service Connector: 19332631
Description: 2-Way M 1.2 Multilock Series, Sealed (BK)

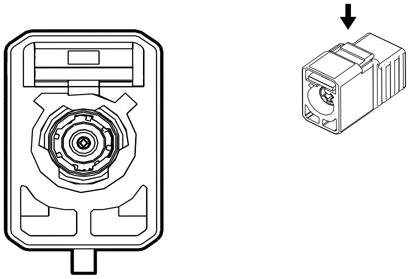
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-16 (LT GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required
II	Not Required	J-35616-17 (LT GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

X401 Cargo Lamp Harness to Chassis Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	0.75	WH/ VT	1430	I	—	Exterior Courtesy Lamp Control	1	0.75	WH/ VT	1430	II	—
2	0.75	BK/ WH	751	I	—	Signal Ground	2	0.75	BK/ WH	751	II	—

X402 Rear Fascia Harness to Chassis Harness



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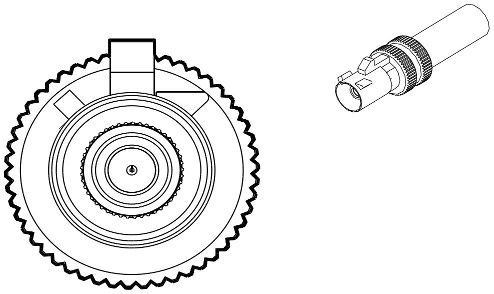


5001492

Connector Part Information

Harness Type: Rear Fascia COAX

OEM Connector: 13508115

Service Connector: Service by Cable Assembly — See Part Catalog

Description: 1-Way F Coax Type (BK)

Connector Part Information

Harness Type: Chassis COAX

OEM Connector: 13508111

Service Connector: Service by Cable Assembly — See Part Catalog

Description: 1-Way M Coax Type (BK)

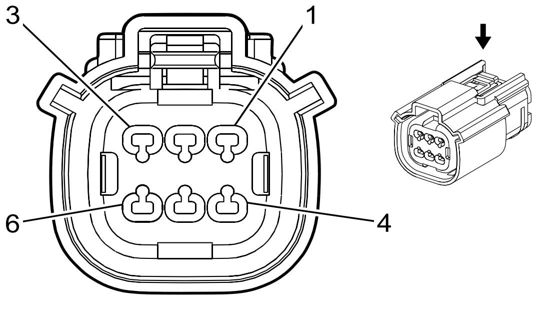
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	No Tool Required	No Tool Required	Not Required	Not Required	Not Required	Not Required

X402 Rear Fascia Harness to Chassis Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
—	—	Coax	—	I	—	(ISRVM) Camera Video Signal	—	—	Coax	—	I	—

X410 Tail Lamp - Left Harness to Chassis Harness



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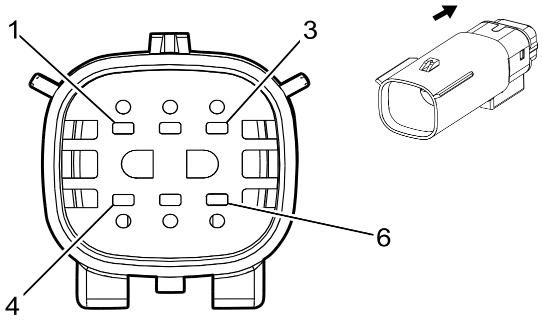


1986159

Connector Part Information

Harness Type: Tail Lamp - Left
OEM Connector: Not Available
Service Connector: Service by Harness - See Part Catalog
Description: 6-Way F

Connector Part Information

Harness Type: Chassis
OEM Connector: 33482-3601
Service Connector: 13585853
Description: 6-Way M 150 MX Series, Sealed (BK)

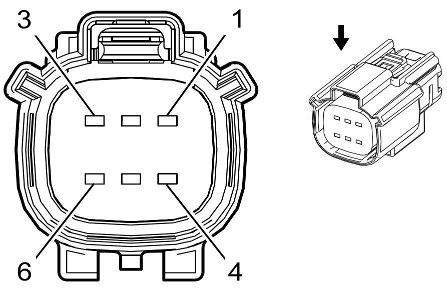
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-2A (GY)	No Tool Required	Not Required	Not Required	Not Required	Not Required
II	Not Required	J-35616-3 (GY)	No Tool Required	Not Required	Not Required	Not Required	Not Required

X410 Tail Lamp - Left Harness to Chassis Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	1.5	L-GN/WH	24	I	—	Backup Lamp Control	1	1.5	L-GN/WH	24	II	—
2	1.5	BN/L-BU	2509	I	—	Left Rear Park Lamp Control	2	1.5	BN/L-BU	2509	II	—
3	1.5	GY/YE	7542	I	—	Left Rear Stop Lamp Control	3	1.5	GY/YE	7542	II	—
4	1.5	BK	750	I	—	Ground	4	1.5	BK	750	II	—
5 - 6	—	—	—	—	—	Not Occupied	5 - 6	—	—	—	—	—

X420 Tail Lamp - Right Harness to Chassis Harness



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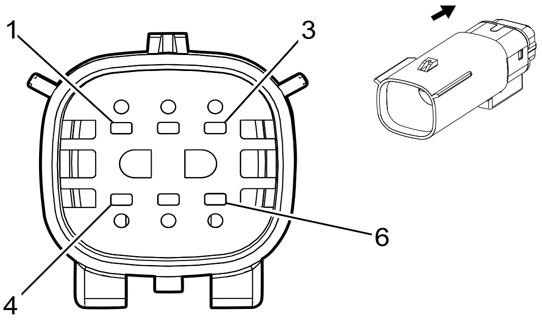


1986159

Connector Part Information

Harness Type: Tail Lamp - Right
OEM Connector: Not Available
Service Connector: Service by Harness - See Part Catalog
Description: 6-Way F

Connector Part Information

Harness Type: Chassis
OEM Connector: 33482-3601
Service Connector: 13585853
Description: 6-Way M 150 MX Series, Sealed (BK)

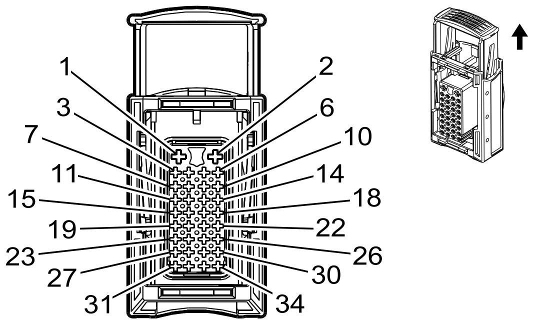
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-2A (GY)	No Tool Required	Not Required	Not Required	Not Required	Not Required
II	Not Required	J-35616-3 (GY)	No Tool Required	Not Required	Not Required	Not Required	Not Required

X420 Tail Lamp - Right Harness to Chassis Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	1.5	L-GN/ WH	24	I	—	Backup Lamp Control	1	1.5	L-GN/ WH	24	II	—
2	1.5	BN/ GY	2609	I	—	Right Rear Park Lamp Control	2	1.5	BN/ GY	2609	II	—
3	1.5	WH/ YE	7541	I	—	Right Rear Stop Lamp Control	3	1.5	WH/ YE	7541	II	—
4	1.5	BK	850	I	—	Ground	4	1.5	BK	850	II	—
5 - 6	—	—	—	—	—	Not Occupied	5 - 6	—	—	—	—	—

X500 Body Harness to Driver Door Harness



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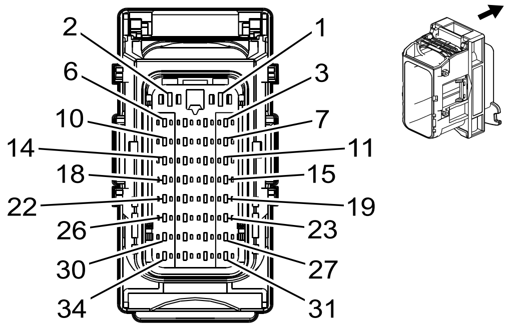

2042941

Connector Part Information

Harness Type: Body
OEM Connector: 30432411
Service Connector: 19300485
Description: 34-Way F 1.5, 2.8 Series, Sealed (BK)

Connector Part Information

Harness Type: Driver Door
OEM Connector: 3 053 06 11
Service Connector: Service by Harness - See Part Catalog
Description: 34-Way M 1.5, 2.8 Series, Sealed (BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13588058	J-35616-2A (GY)	J-38125-560	Not Available	Not Available	Not Available	Not Available
II	-	J-35616-14 (GN)	J-38125-560	Not Available	Not Available	Not Available	Not Available
III	-	J-35616-35 (VT)	J-38125-557	60012941	AFL 21	Not Available	Not Available
IV	Not Required	J-35616-19 (BK)	No Tool Required	Not Required	Not Required	Not Required	Not Required
V	Not Required	J-35616-3 (GY)	No Tool Required	Not Required	Not Required	Not Required	Not Required
VI	Not Required	J-35616-5 (PU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

X500 Body Harness to Driver Door Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	2.5	RD/L-BU	1240	III	—	Battery Positive Voltage	1	2.5	RD/L-BU	1240	VI	—
2	2.5	BK	3550	III	—	Ground	2	2.5	BK	3550	VI	—
3	0.35	WH	3398	I	—	Passenger Mirror Motor Common Control	3	0.35	WH	3398	V	—
4	0.5	BN/YE	2267	II	—	Mirror Heating Element Control	4	0.5	BN/YE	2267	IV	—
5	0.35	YE/VT	3397	I	—	Passenger Mirror Motor Up (+) Down (-) Control	5	0.35	YE/VT	3397	V	—

X500 Body Harness to Driver Door Harness (cont'd)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
6	0.35	L-GN/BK	3396	I	—	Passenger Mirror Motor Right (+) Left (-) Control	6	0.35	L-GN/BK	3396	V	—
7 - 8	—	—	—	—	—	Not Occupied	7 - 8	—	—	—	—	—
9	1	BN/L-BU	118	II	—	Left Front Speaker Signal (-) 1	9	1	BN/L-BU	118	IV	—
10	1	L-BU	201	II	—	Left Front Speaker Control (+) 1	10	1	L-BU	201	IV	—
11	—	—	—	—	—	Not Occupied	11	—	—	—	—	—
12	0.35	WH	6816	I	—	Indicator Dimming Control	12	0.35	WH	6816	V	—
13	—	—	—	—	—	Not Occupied	13	—	—	—	—	—
14	0.35	OG/L-GN	2132	I	—	Left Front Side Impact Sensing Module Signal	14	0.35	OG/L-GN	2132	V	—
15	0.35	BK/OG	6628	I	—	Left Front Side Impact Sensing Module Low Reference	15	0.35	BK/OG	6628	V	—
16	0.35	RD/VT	1940	I	—	Battery Positive Voltage Battery Positive Voltage	16	0.5 0.35	RD/VT RD/VT	1940 1940	IV V	-DL9 DL9
17	0.35	BN/WH	781	I	—	Driver Door Lock Switch Unlock Signal	17	0.35	BN/WH	781	V	—
18	0.35	BN/YE	780	I	—	Driver Door Lock Switch Lock Signal	18	0.35	BN/YE	780	V	—
19	0.75	BN/YE	294	II	—	Door Lock Actuator Unlock Control	19	0.75	BN/YE	294	IV	—
20	0.75	GY	5911	II	—	Door Lock Actuator Lock Control 2	20	0.75	GY	5911	IV	—
21 - 25	—	—	—	—	—	Not Occupied	21 - 25	—	—	—	—	—
26	0.35	YE	6817	I	—	LED Backlight Dimming Control	26	0.35	YE	6817	V	—
27 - 31	—	—	—	—	—	Not Occupied	27 - 31	—	—	—	—	—

X500 Body Harness to Driver Door Harness (cont'd)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
32	0.35	GY	5697	I	—	Child Lockout Indicator Control	32	0.35	GY	5697	V	—
33	0.5	L-GN/ YE	6134	II	—	Local Interconnect Network Serial Data Bus 3	33	0.5	L-GN/ YE	6134	IV	—
34	0.35	YE/ BN	3265	I	—	Child Security Lock Switch Signal	34	0.35	YE/ BN	3265	V	—

X510 Outside Rearview Mirror Harness to Driver Door Harness

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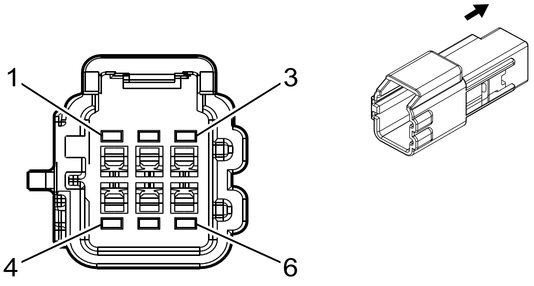

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Connector Part Information

Harness Type: Outside Rearview Mirror
OEM Connector: Not Available
Service Connector: Service by Harness - See Part Catalog
Description: 6-Way F

Connector Part Information

Harness Type: Driver Door
OEM Connector: 6098-7693
Service Connector: Service by Harness - See Part Catalog
Description: 6-Way M 1.2 OCS Series (BK)

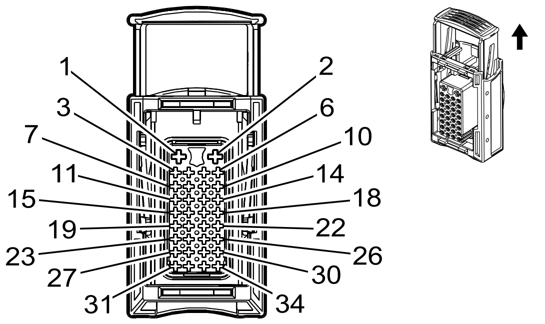
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-16 (LT GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required
II	Not Required	J-35616-17 (LT GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

X510 Outside Rearview Mirror Harness to Driver Door Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	0.35	YE/BN	3391	I	—	Driver Mirror Motor Common Control	1	0.35	YE/BN	3391	II	—
2	0.35	VT/L-BU	3390	I	—	Driver Mirror Motor Up (+) Down (-) Control	2	0.35	VT/L-BU	3390	II	—
3	0.35	BN/BK	3389	I	—	Driver Mirror Motor Right (+) Left (-) Control	3	0.35	BN/BK	3389	II	—
4	0.5	BN/YE	2267	I	—	Mirror Heating Element Control	4	0.5	BN/YE	2267	II	—
5	0.5	BK	3550	I	—	Ground	5	0.5	BK	3550	II	—

X600 Body Harness to Passenger Door Harness



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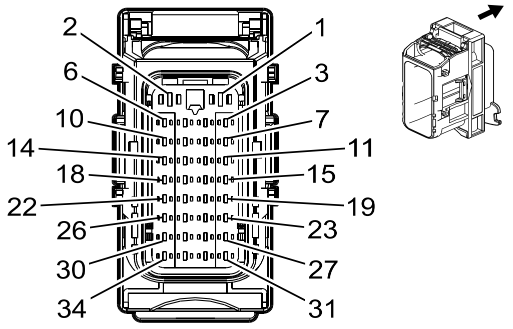

2042941

Connector Part Information

Harness Type: Body
OEM Connector: 30432411
Service Connector: 19300485
Description: 34-Way F 1.5, 2.8 Series, Sealed (BK)

Connector Part Information

Harness Type: Passenger Door
OEM Connector: 3 053 06 11
Service Connector: Service by Harness - See Part Catalog
Description: 34-Way M 1.5, 2.8 Series, Sealed (BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13588058	J-35616-2A (GY)	J-38125-560	Not Available	Not Available	Not Available	Not Available
II	-	J-35616-14 (GN)	J-38125-560	Not Available	Not Available	Not Available	Not Available
III	-	J-35616-35 (VT)	J-38125-557	60012941	AFL 21	Not Available	Not Available
IV	Not Required	J-35616-19 (BK)	No Tool Required	Not Required	Not Required	Not Required	Not Required
V	Not Required	J-35616-3 (GY)	No Tool Required	Not Required	Not Required	Not Required	Not Required
VI	Not Required	J-35616-5 (PU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

X600 Body Harness to Passenger Door Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	2.5	RD/WH	1340	III	—	Battery Positive Voltage	1	2.5	RD/WH	1340	VI	—
2	2.5	BK	3650	III	—	Ground	2	2.5	BK	3650	VI	—
3	0.35	WH	3398	I	—	Passenger Mirror Motor Common Control	3	0.35	WH	3398	V	—
4	0.5	BN/YE	2267	II	—	Mirror Heating Element Control	4	0.5	BN/YE	2267	IV	—
5	0.35	YE/VT	3397	I	—	Passenger Mirror Motor Up (+) Down (-) Control	5	0.35	YE/VT	3397	V	—

X600 Body Harness to Passenger Door Harness (cont'd)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
6	0.35	L-GN/ BK	3396	I	—	Passenger Mirror Motor Right (+) Left (-) Control	6	0.35	L-GN/ BK	3396	V	—
7 - 8	—	—	—	—	—	Not Occupied	7 - 8	—	—	—	—	—
9	1	YE/ BK	117	II	—	Right Front Speaker Signal (-) 1	9	1	YE/ BK	117	IV	—
10	1	YE	200	II	—	Right Front Speaker Control (+) 1	10	1	YE	200	IV	—
11 - 13	—	—	—	—	—	Not Occupied	11 - 13	—	—	—	—	—
14	0.35	BN/ OG	2134	I	—	Right Front Side Impact Sensing Module Signal	14	0.35	BN/ OG	2134	V	—
15	0.35	BK/ OG	6629	I	—	Right Front Side Impact Sensing Module Low Reference	15	0.35	BK/ OG	6629	V	—
16	—	—	—	—	—	Not Occupied	16	—	—	—	—	—
17	0.35	BN/ VT	245	I	—	Passenger Door Lock Switch Unlock Control	17	0.35	BN/ VT	245	V	—
18	0.35	YE/ VT	244	I	—	Passenger Door Lock Switch Lock Control	18	0.35	YE/ VT	244	V	—
19	0.75	BN/ YE	294	II	—	Door Lock Actuator Unlock Control	19	0.75	BN/ YE	294	IV	—
20	0.75	GY	295	II	—	Door Lock Actuator Lock Control	20	0.75	GY	295	IV	—
21 - 25	—	—	—	—	—	Not Occupied	21 - 25	—	—	—	—	—
26	0.35	YE	6817	I	—	LED Backlight Dimming Control	26	0.35	YE	6817	V	—
27 - 32	—	—	—	—	—	Not Occupied	27 - 32	—	—	—	—	—
33	0.5	L-GN/ YE	6134	II	—	Local Interconnect Network Serial Data Bus 3	33	0.5	L-GN/ YE	6134	IV	—
34	—	—	—	—	—	Not Occupied	34	—	—	—	—	—

X610 Outside Rearview Mirror Harness to Passenger Door Harness

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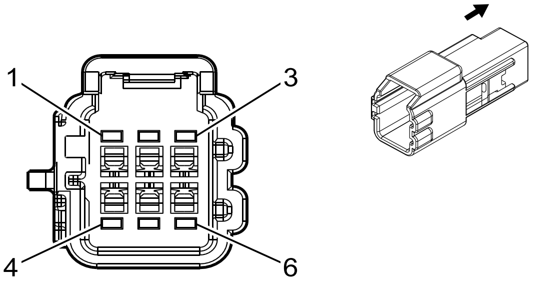


4446774

Connector Part Information

Harness Type: Outside Rearview Mirror
OEM Connector: Not Available
Service Connector: Service by Harness - See Part Catalog
Description: 6-Way F

Connector Part Information

Harness Type: Passenger Door
OEM Connector: 6098-7693
Service Connector: Service by Harness - See Part Catalog
Description: 6-Way M 1.2 OCS Series (BK)

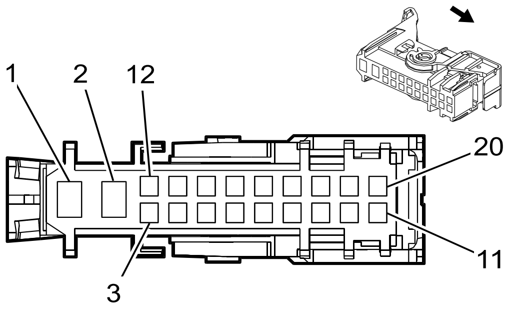
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-16 (LT GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required
II	Not Required	J-35616-17 (LT GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

X610 Outside Rearview Mirror Harness to Passenger Door Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	0.35	WH	3398	I	—	Passenger Mirror Motor Common Control	1	0.35	WH	3398	II	—
2	0.35	YE/VT	3397	I	—	Passenger Mirror Motor Up (+) Down (-) Control	2	0.35	YE/VT	3397	II	—
3	0.35	L-GN/BK	3396	I	—	Passenger Mirror Motor Right (+) Left (-) Control	3	0.35	L-GN/BK	3396	II	—
4	0.5	BN/YE	2267	I	—	Mirror Heating Element Control	4	0.5	BN/YE	2267	II	—
5	0.5	BK	3650	I	—	Ground	5	0.5	BK	3650	II	—

X700 Left Rear Door Harness to Body Harness (Crew Cab)



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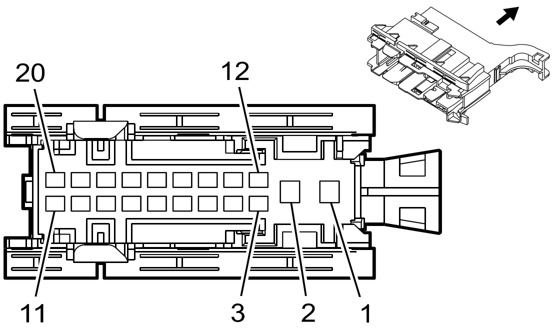


3621541

Connector Part Information

Harness Type: Left Rear Door
OEM Connector: 13678789
Service Connector: Service by Harness - See Part Catalog
Description: 20-Way F 4.8 Timer, 1.5 DSQ Series (GY)

Connector Part Information

Harness Type: Body
OEM Connector: 13680032
Service Connector: 13577518
Description: 20-Way M 1.5, 5.8 TTS Series (GY)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-14 (GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required
II	Not Required	J-35616-42 (RD)	No Tool Required	Not Required	Not Required	Not Required	Not Required
III	13575556	J-35616-34 (YE)	J-38125-560	Not Available	Not Available	Not Available	Not Available
IV	13575706	J-35616-32 (OR)	J-38125-36	Not Available	Not Available	Not Available	Not Available
V	13575775	J-35616-34 (YE)	J-38125-560	Not Available	Not Available	Not Available	Not Available
VI	19368263	J-35616-3 (GY)	J-38125-12A	964265-2	Lear 28	E	2
VII	19368263	J-35616-3 (GY)	J-38125-12A	964265-2	Lear 28	E	C

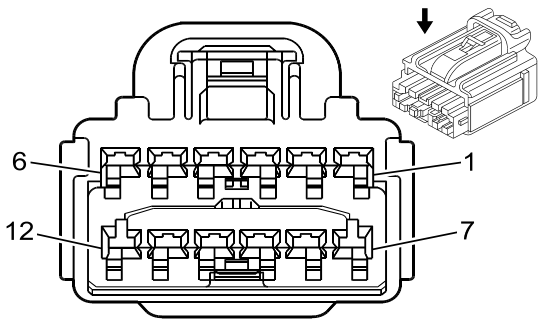
X700 Left Rear Door Harness to Body Harness (Crew Cab)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	2.5	RD/L-BU	1240	II	—	Battery Positive Voltage	1	2.5	RD/L-BU	1240	IV	—
2	2.5	BK	3350	II	—	Ground	2	2.5	BK	3350	IV	—
3 - 6	—	—	—	—	—	Not Occupied	3 - 6	—	—	—	—	—
7	1	L-GN	199	I	—	Left Rear Speaker Control (+)	7	1	L-GN	199	III	—
8	—	—	—	—	—	Not Occupied	8	—	—	—	—	—

X700 Left Rear Door Harness to Body Harness (Crew Cab) (cont'd)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
9	0.75	WH/ L-BU	3266	I	—	Child Security Lock Motor Lock Control	9	0.75	WH/ L-BU	3266	VII	—
10	0.75	BN/ YE	294	I	—	Door Lock Actuator Unlock Control	10	0.75	BN/ YE	294	VII	—
11	0.75	GY	295	I	—	Door Lock Actuator Lock Control	11	0.75	GY	295	VII	—
12 - 15	—	—	—	—	—	Not Occupied	12 - 15	—	—	—	—	—
16	1	L-GN/ BK	116	I	—	Left Rear Speaker Signal (-)	16	1	L-GN/ BK	116	III	—
17 - 18	—	—	—	—	—	Not Occupied	17 - 18	—	—	—	—	—
19	0.35	BN/ WH	3269	I	—	Child Security Lock Motor Status Signal Left Rear	19	0.35	BN/ WH	3269	V	—
20	0.5	L-GN/ GY	6135	I	—	Local Interconnect Network Serial Data Bus 4	20	0.5	L-GN/ GY	6135	VI	—

X700 Left Rear Door Harness to Body Harness (Extended Cab)



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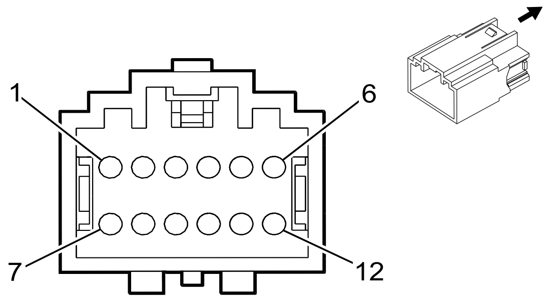


3240100

Connector Part Information

Harness Type: Left Rear Door
OEM Connector: 7283-3442-40
Service Connector: Service by Harness - See Part Catalog
Description: 12-Way F YESC Kaizen Series (L-GY)

Connector Part Information

Harness Type: Body
OEM Connector: 7282-3442-40
Service Connector: 88988266
Description: 12-Way M 1.5 Series (L-GY)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-2A (GY)	No Tool Required	Not Required	Not Required	Not Required	Not Required
II	13575818	J-35616-3 (GY)	J-38125-553	Not Available	Not Available	Not Available	Not Available
III	19329753	J-35616-3 (GY)	J-38125-12A	Not Available	Not Available	Not Available	Not Available

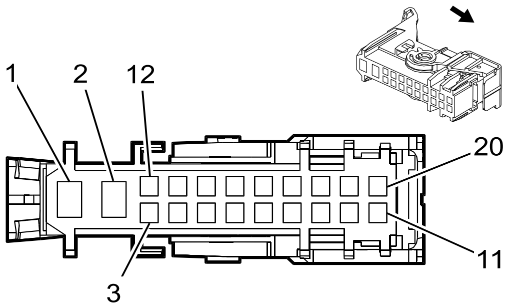
X700 Left Rear Door Harness to Body Harness (Extended Cab)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	—	—	—	—	—	Not Occupied	1	—	—	—	—	—
2	0.5	OG/ YE	3481	I	—	Driver Seat Belt Anchor Pretensioner High Control	2	0.35	OG/ YE	3481	III	—
3	0.5	OG/ WH	3477	I	—	Driver Seat Belt Retractor Pretensioner High Control	3	0.35	OG/ WH	3477	III	—
4	1	L-GN/ BK	116	I	—	Left Rear Speaker Signal (-)	4	1	L-GN/ BK	116	II	—
5	0.35	GY	747	I	—	Left Rear Door Ajar Switch Signal	5	0.35	GY	747	II	—
6 - 7	—	—	—	—	—	Not Occupied	6 - 7	—	—	—	—	—

X700 Left Rear Door Harness to Body Harness (Extended Cab) (cont'd)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
8	0.5	VT/ OG	3482	I	—	Driver Seat Belt Anchor Pretensioner Low Control	8	0.35	YE/ OG	3482	III	—
9	0.5	GY/ OG	3478	I	—	Driver Seat Belt Retractor Pretensioner Low Control	9	0.35	GY/ OG	3478	III	—
10	1	L-GN	199	I	—	Left Rear Speaker Control (+)	10	1	L-GN	199	II	—
11	0.35	BK	3350	I	—	Ground	11	0.5	BK	3350	II	—
12	—	—	—	—	—	Not Occupied	12	—	—	—	—	—

X800 Right Rear Door Harness to Body Harness (Crew Cab)



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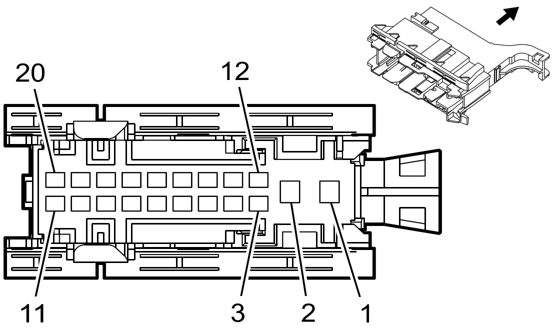


3621541

Connector Part Information

Harness Type: Right Rear Door
OEM Connector: 13678789
Service Connector: Service by Harness - See Part Catalog
Description: 20-Way F 4.8 Timer, 1.5 DSQ Series (GY)

Connector Part Information

Harness Type: Body
OEM Connector: 13680032
Service Connector: 13577518
Description: 20-Way M 1.5, 5.8 TTS Series (GY)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-14 (GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required
II	Not Required	J-35616-42 (RD)	No Tool Required	Not Required	Not Required	Not Required	Not Required
III	13575556	J-35616-34 (YE)	J-38125-560	Not Available	Not Available	Not Available	Not Available
IV	13575706	J-35616-32 (OR)	J-38125-36	Not Available	Not Available	Not Available	Not Available
V	13575775	J-35616-34 (YE)	J-38125-560	Not Available	Not Available	Not Available	Not Available
VI	19368263	J-35616-3 (GY)	J-38125-12A	964265-2	Lear 28	E	2
VII	19368263	J-35616-3 (GY)	J-38125-12A	964265-2	Lear 28	E	C

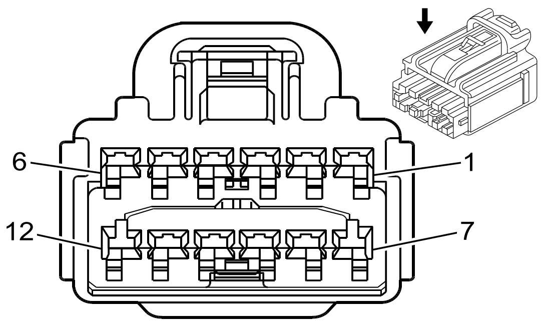
X800 Right Rear Door Harness to Body Harness (Crew Cab)

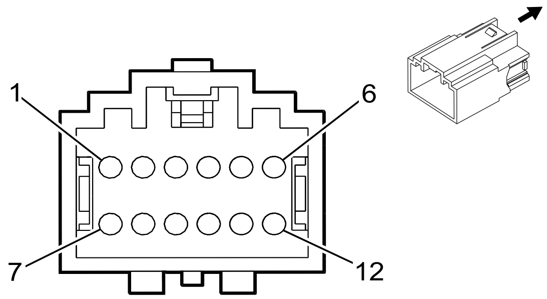
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	2.5	RD/WH	1340	II	—	Battery Positive Voltage	1	2.5	RD/WH	1340	IV	—
2	2.5	BK	3450	II	—	Ground	2	2.5	BK	3450	IV	—
3 - 6	—	—	—	—	—	Not Occupied	3 - 6	—	—	—	—	—
7	1	WH	46	I	—	Right Rear Speaker Control (+)	7	1	WH	46	III	—
8	—	—	—	—	—	Not Occupied	8	—	—	—	—	—

X800 Right Rear Door Harness to Body Harness (Crew Cab) (cont'd)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
9	0.75	WH/ L-BU	3266	I	—	Child Security Lock Motor Lock Control	9	0.75	WH/ L-BU	3266	VII	—
10	0.75	BN/ YE	294	I	—	Door Lock Actuator Unlock Control	10	0.75	BN/ YE	294	VII	—
11	0.75	GY	295	I	—	Door Lock Actuator Lock Control	11	0.75	GY	295	VII	—
12 - 15	—	—	—	—	—	Not Occupied	12 - 15	—	—	—	—	—
16	1	L-BU/ BK	115	I	—	Right Rear Speaker Signal (-)	16	1	L-BU/ BK	115	III	—
17 - 18	—	—	—	—	—	Not Occupied	17 - 18	—	—	—	—	—
19	0.35	GY/ BK	3268	I	—	Child Security Lock Motor Status Signal Right Rear	19	0.35	GY/ BK	3268	V	—
20	0.5	L-GN/ GY	6135	I	—	Local Interconnect Network Serial Data Bus 4	20	0.5	L-GN/ GY	6135	VI	—

X800 Right Rear Door Harness to Body Harness (Extended Cab)





Connector Part Information

Harness Type: Right Rear Door
OEM Connector: 7283-3442-40
Service Connector: Service by Harness - See Part Catalog
Description: 12-Way F YESC Kaizen Series (L-GY)

Connector Part Information

Harness Type: Body
OEM Connector: 7282-3442-40
Service Connector: 88988266
Description: 12-Way M 1.5 Series (L-GY)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-2A (GY)	No Tool Required	Not Required	Not Required	Not Required	Not Required
II	13575818	J-35616-3 (GY)	J-38125-553	Not Available	Not Available	Not Available	Not Available
III	19329753	J-35616-3 (GY)	J-38125-12A	Not Available	Not Available	Not Available	Not Available

X800 Right Rear Door Harness to Body Harness (Extended Cab)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	—	—	—	—	—	Not Occupied	1	—	—	—	—	—
2	0.5	OG/BN	3479	I	—	Passenger Seat Belt Anchor Pretensioner High Control	2	0.35	OG/BN	3479	III	—
3	0.5	OG/L-GN	3475	I	—	Passenger Seat Belt Retractor Pretensioner High Control	3	0.35	OG/L-GN	3475	III	—
4	1	L-BU/BK	115	I	—	Right Rear Speaker Signal (-)	4	1	L-BU/BK	115	II	—
5	0.35	GY	748	I	—	Right Rear Door Ajar Switch Signal	5	0.35	GY	748	II	—
6 - 7	—	—	—	—	—	Not Occupied	6 - 7	—	—	—	—	—

X800 Right Rear Door Harness to Body Harness (Extended Cab) (cont'd)

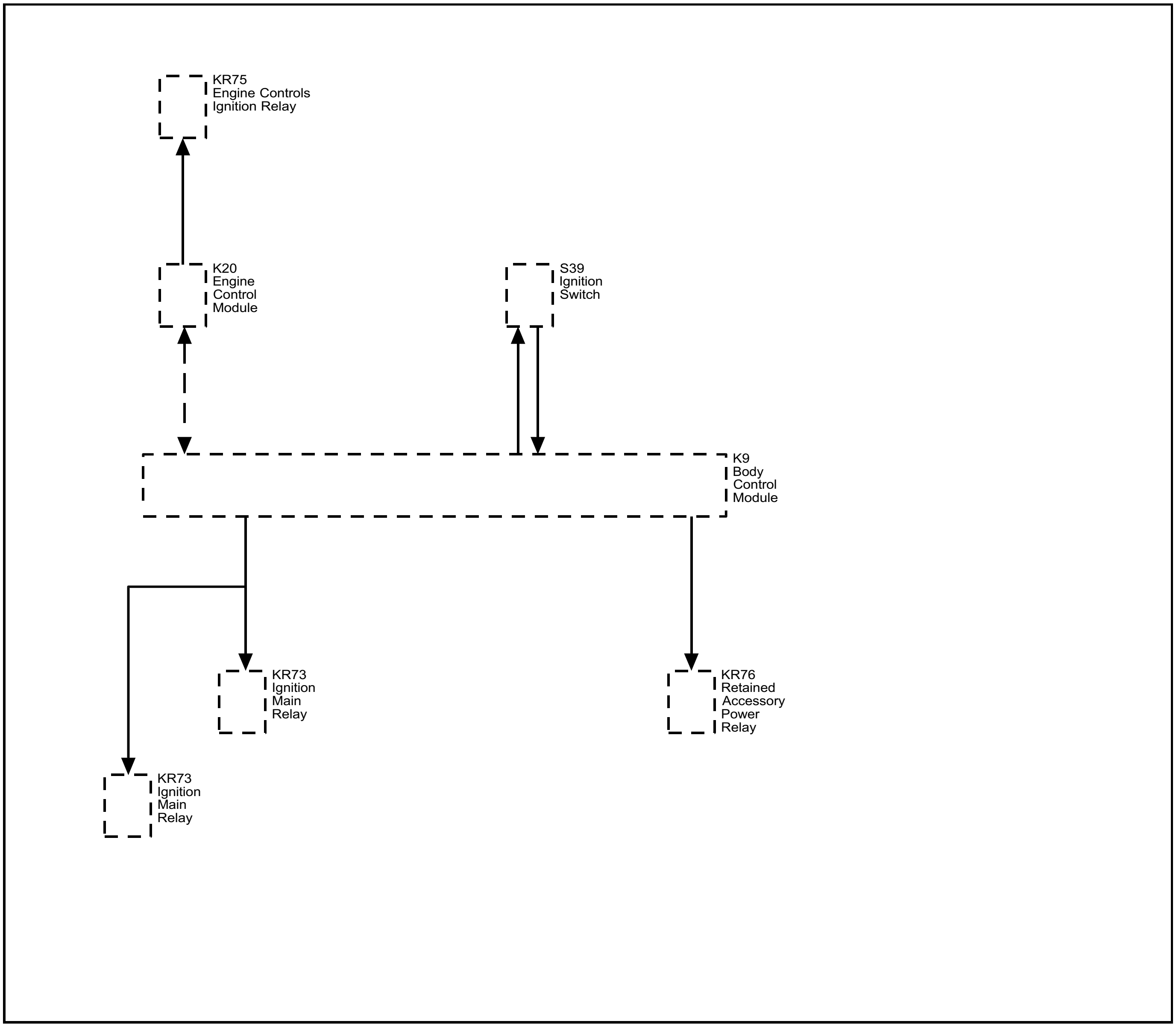
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
8	0.5	GY/OG	3480	I	—	Passenger Seat Belt Anchor Pretensioner Low Control	8	0.35	GY/OG	3480	III	—
9	0.5	WH/OG	3476	I	—	Passenger Seat Belt Retractor Pretensioner Low Control	9	0.35	WH/OG	3476	III	—
10	1	WH	46	I	—	Right Rear Speaker Control (+)	10	1	WH	46	II	—
11	0.35	BK	3450	I	—	Ground	11	0.5	BK	3450	II	—
12	—	—	—	—	—	Not Occupied	12	—	—	—	—	—

Wiring Systems and Power Management

Description and Operation

Power Mode Description and Operation

Power Moding Description and Operation Block Diagram


KR75
Engine Controls
Ignition Relay
K20
Engine
Control
Module
S39
Ignition
Switch
K9
Body
Control
Module
KR73
Ignition
Main
Relay
KR76
Retained
Accessory
Power
Relay
KR73
Ignition
Main
Relay

3829550

Serial Data Power Mode Master

Power to many of this vehicles circuits is controlled by the module that is designated the power mode master. This vehicles power mode master is the body control module (BCM). The BCM has multiple B+ circuits that feed into it. Each of those circuits are partitioned within the controller to drive certain outputs of the vehicle's body functions. An open or short in any one of the B+ circuits may induce multiple codes/or a section of non-functionality within the BCM with the rest of the BCM functioning normally. In this case it is useful to refer to the power distribution schematics to determine if the non-functional partition of the controller shares a common B+ circuit. The ignition switch is a low current switch with multiple discrete ignition switch signals to the power mode master for determination of the power mode that will be sent over the serial data circuits to the other modules that need this information. The power mode master will also activate relays and other direct outputs of the power mode master as needed. The power mode master determines which power mode (Off, Accessory, Run, Crank Request) is required, and reports this information to other modules via serial data. Modules which have switched voltage inputs may operate in a default mode if the power mode serial data message does not match what the individual module can see from its own connections.

The power mode master receives ignition switch or ignition mode switch signals to identify the operators desired power mode. The Power Mode Parameter tables below illustrate the correct state of these input parameters (circuits) in correspondence to the ignition switch position or ignition mode switch with the transmitter to vehicle range:

Power Mode Parameters

Ignition Switch Position	Power Mode Transmitted	Ign. Off/Run/Crank (Off/Run Crank Voltage Circuit)	Ignition Accessory/Run (Accessory Voltage Circuit)	Ignition Run/Crank (Ignition 1 Voltage Circuit)
Off Key Out	Off	Key Out / ACC	Inactive	Inactive
Off Key IN	Off	Key In / Off	Inactive	Inactive
Accessory	Accessory	Key Out / ACC	Active	Inactive
Run	Run	Run	Active	Active
Start	Crank Request	Crank	Inactive	Active

Relay Controlled Power Mode

The BCM uses the discrete ignition switch inputs Off/Run/Crank Voltage, Accessory Voltage, and Ignition 1 Voltage, to distinguish the correct power mode. The BCM, after determining the desired power mode, will activate the appropriate relays for that power mode.

The accessory relay remains on for a timed period after the Ignition key is removed. Refer to *Retained Accessory Power Description and Operation on page 5-782* for more information on the retained accessory power function.

Battery Saver Mode (Transport Mode)

Battery saver mode (transport mode) reduces the parasitic load of some modules during overseas shipment or during vehicle storage conditions. This improves the drain time on the battery (up to 70 days without the battery going dead). When a vehicle is in transport/storage, some features may have reduced functionality while in the battery saver mode, such as disabling keyless entry, afterblow, and content theft features. Battery saver mode is initiated by turning on the hazard flashers, applying the brake pedal, and then turning the ignition key to the start position or pushing the ignition mode switch with the foot on the brake for greater than 15 seconds. The mode is disengaged by repeating the previous process. The driver information center (if equipped) will display Transport Mode is On when battery saver mode is enabled and Transport Mode is Off when battery saver mode is disabled. For vehicles not equipped with a driver information center, the battery indicator light will constantly flash on the Instrument Cluster when battery saver mode is enabled. This feature can be used as many times as necessary if the vehicle is to be stored for an extended period of time.

BCM Awake/Sleep States

The BCM is able to control or perform all of the BCM functions in the awake state. The BCM enters the sleep state when active control or normal monitoring of system functions has stopped and a time limit has passed. The BCM must detect certain wake-up inputs before entering the awake state. The BCM monitors for these inputs during the sleep state.

The BCM will enter the awake state if any of the following wake-up inputs are detected:

- Activity on the serial data line
- Detection of a battery reconnect
- Any door open signal
- Headlamps ON
- Key-in-ignition
- Ignition ON
- Park lamps ON
- Keyless entry or remote start message

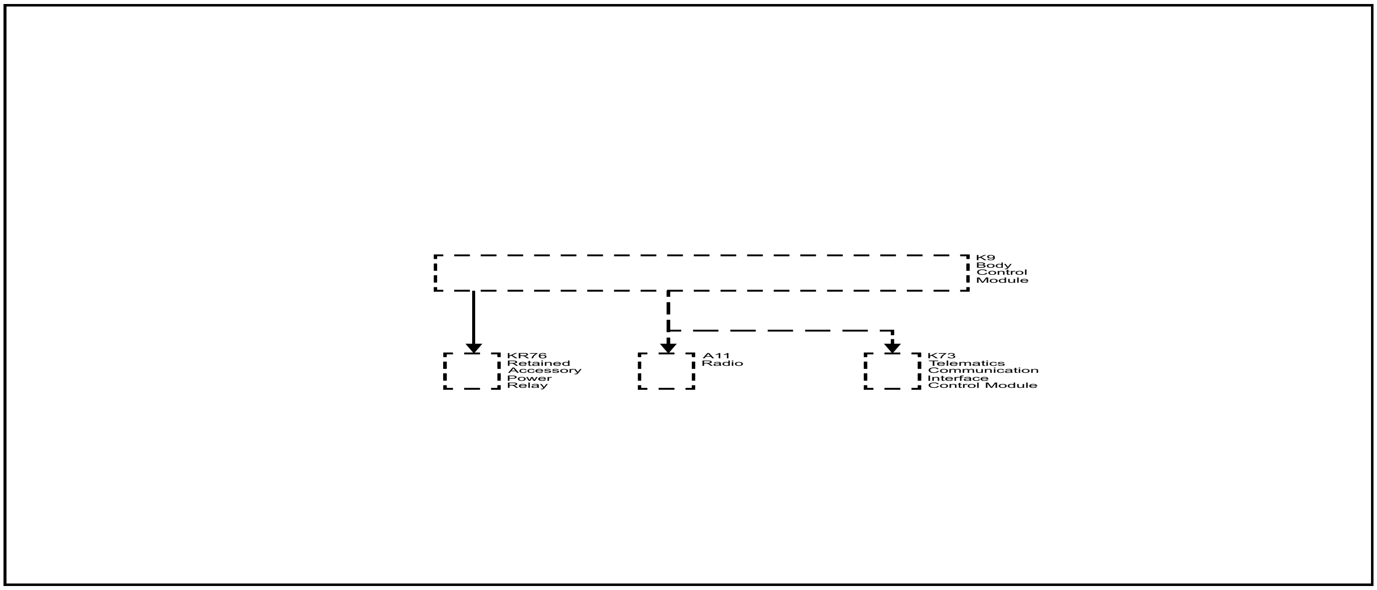
The BCM will enter a sleep state when all of the following conditions exist:

- The ignition switch is OFF, key out.
- Ignition OFF, transmitter is out of range
- No activity exists on the serial data line.
- No outputs are commanded.
- No delay timers are actively counting.
- No wake-up inputs are present.

If all these conditions are met, the BCM will enter a low power or sleep condition.

Retained Accessory Power Description and Operation

RAP Description and Operation Block Diagram



Retained Accessory Power

The body control module (BCM) monitors the ignition switch position, battery condition, and each door ajar/ open switch status to determine whether the retained accessory power should be initiated or terminated. Retained accessory power is controlled by two different methods; relay control and serial data. Some modules receive a retained accessory power message from the BCM over the serial data circuits. Serial data controlled retained accessory power is deactivated as required by their modules retained accessory power mode operation. Other subsystems are activated directly by the BCM through a relay. Components and systems that are active in retained accessory power are also activated anytime the ignition is any position other than OFF regardless of the door switch signals.

Relay Controlled Retained Accessory Power

The BCM keeps the relay energized during all power modes, except Off-Awake and Crank. The relay is also energized for approximately 10 minutes after shutting the ignition OFF and removing the key, providing no door is opened.

Relay controlled retained accessory power will end when one of the following conditions is met:

- The BCM receives an input from any door ajar or open switch indicating the opening of any door after the ignition key is out of the ignition.

  Note: If the BCM is receiving any door ajar or open signal from those switches when the ignition key is turned OFF, retained accessory power will not initiate.

- The BCM internal timer for the retained accessory power expires after approximately 10 minutes.
- The BCM detects a decrease in battery capacity below a prescribed limit.

Systems powered by the retained accessory power relay during the retained accessory power mode are as follows:

Note: The vehicle may not be equipped with all components as listed below.

- Accessory Power Receptacle
- Cigarette Lighter Receptacle
- Window Switches
- Sunroof Control Module
- Sunroof Switch
- Mobile Device Wireless Charger Module
- Mobile Telephone Control Module
- Traffic Data Receiver
- Transmission Shift Lever Position Indicator (w/ floor mounted console gear shift)
- Seat Heating Control Module

Serial Data Controlled Retained Accessory Power

Retained accessory power systems controlled by serial data are as follows:

Radio

Radio retained accessory power activation / termination is the same as relay operation with one exception; the only door switch that will turn off the radio during retained accessory power is the driver door open switch.

Vehicle Communication Interface Module (VCIM) (Onstar®) (If Equipped)

VCIM RAP activation/termination is the same as radio operation with 1 exception; if there is an active call when the ignition key is turned off the VCIM will remain in RAP mode, and keep the radio in RAP mode until the call is terminated.

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Section 6

Safety and Security

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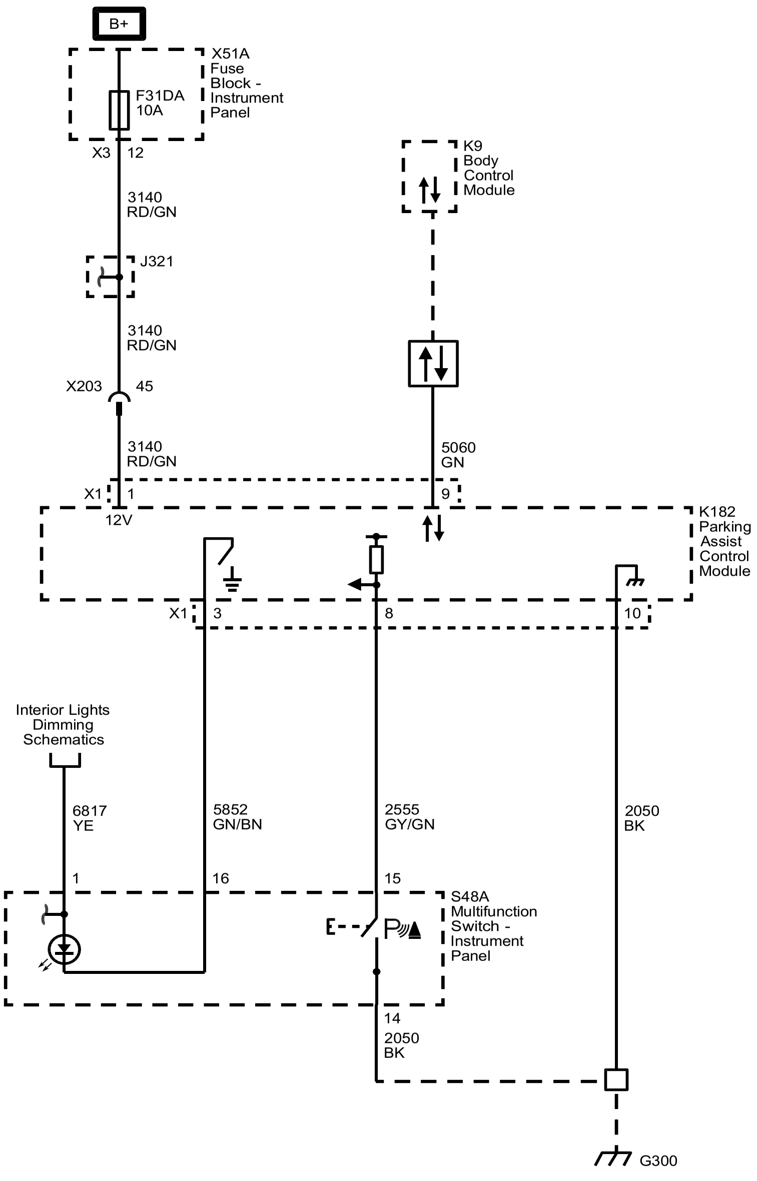
Parking Assistance Systems

Schematic and Routing Diagrams

Parking Assistance Systems Schematics (Park Assist - Module Power, Ground, Serial Data, and Controls (UD7))


B+
X51A
Fuse
Block -
Instrument
Panel
F31DA
10A
X3
12
3140
RD/GN
J321
3140
RD/GN
X203
45
3140
RD/GN
X1
1
12V
K9
Body
Control
Module
5060
GN
9
K182
Parking
Assist
Control
Module
X1
3
8
10
Interior Lights
Dimming
Schematics
6817
YE
5852
GN/BN
2555
GY/GN
2050
BK
1
16
15
S48A
Multifunction
Switch -
Instrument
Panel
14
2050
BK
G300

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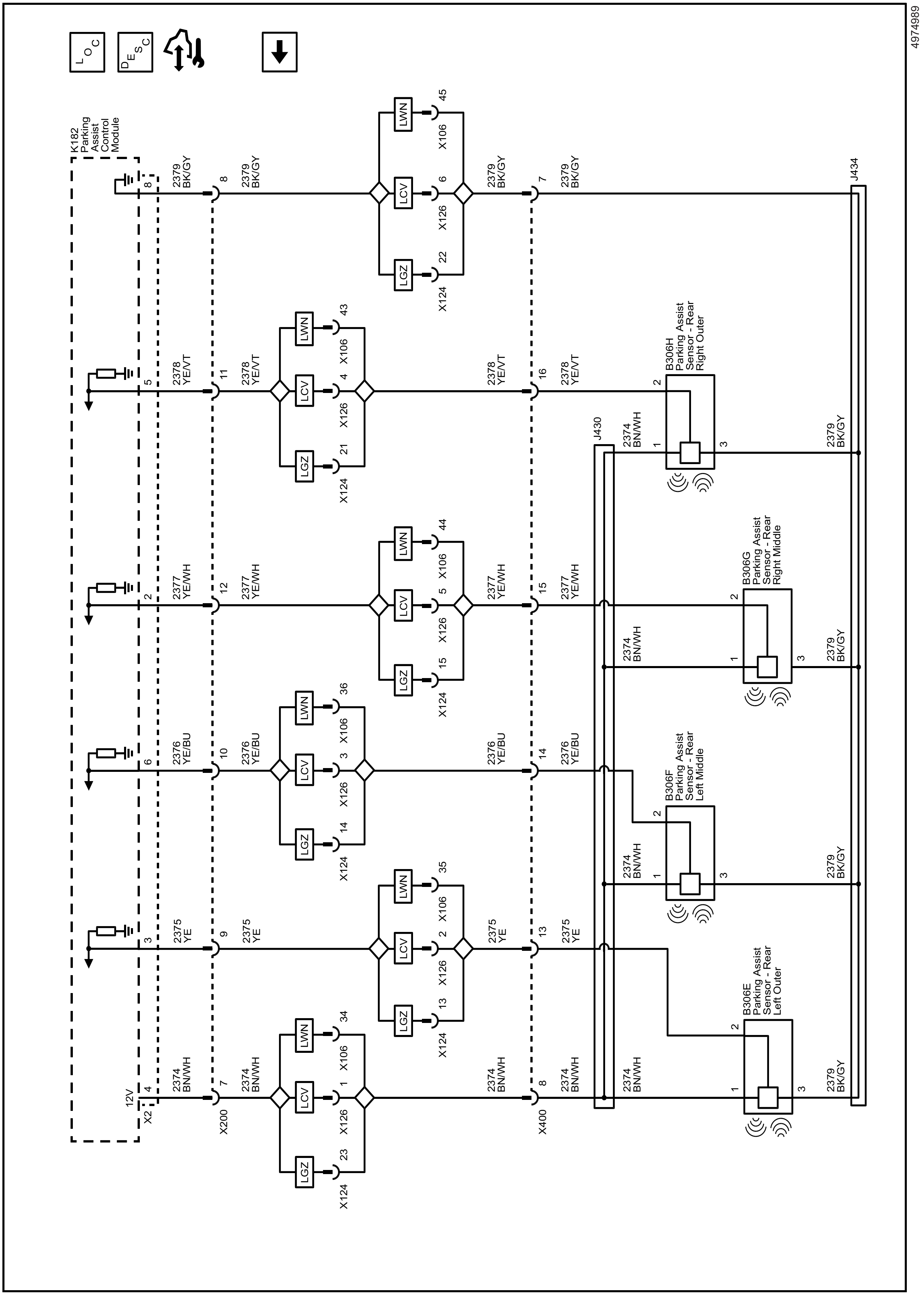
Parking Assistance Systems Schematics (Park Assist - Rear Parking Assist Sensors (UD7))


LOC
DESC
K182 Parking Assist Control Module
X2
12V
4
3
6
2
5
8
2374 BN/WH
2375 YE
2376 YE/BU
2377 YE/WH
2378 YE/VT
2379 BK/GY
X200
7
9
10
12
11
8
LGZ
LCV
LWN
X124
X126
X106
23
1
34
13
2
35
14
3
36
15
5
44
21
4
43
22
6
45
X400
8
13
14
15
16
7
J430
J434
B306E Parking Assist Sensor - Rear Left Outer
B306F Parking Assist Sensor - Rear Left Middle
B306G Parking Assist Sensor - Rear Right Middle
B306H Parking Assist Sensor - Rear Right Outer
1
2
3
4974989

Description and Operation

Parking Assist Description and Operation (UD7)

The parking assist system is designed to identify and notify the driver of an object in the vehicle path when reversing at speeds of less than 8 km/h (5 MPH). The distance and location of the object is determined by four object sensors located in the rear bumper. The parking assist system will notify the driver using audible beeps through the infotainment system.

The parking assist system is made up of the following components:

- Parking assist control module
- Object sensors
- Parking assist switch
- Parking assist switch indicator
- Infotainment system

Parking Assist Control Module

The parking assist control module provides a reference voltage and a low reference to the four object alarm sensors. The parking assist control module receives individual signals from each of the four sensors and determines the location and distance of an object based on these inputs. When an object is detected, the parking assist control module will send a message via serial data to the infotainment system requesting an audible alert.

Object Sensors

The object sensors are located in the rear bumper. The sensors are used to determine the distance between an object and the rear of the vehicle. Each sensor emits an ultrasonic frequency which is reflected off an object behind the vehicle. These reflections are received by the sensors. The time difference between the emission of the frequency and when the reflection is received is known as sensor echo time, it is used to determine the distance to the object. The sensors report this information to the parking assist control module.

Parking Assist Switch

The parking assist system can be activated and deactivated by pressing the parking assist switch. The parking assist control module applies voltage and monitors the parking assist switch signal circuit. The parking assist switch is a normally open switch. With the switch open, voltage seen at the parking assist control module is high. When the parking assist switch is pressed, the switch is closed and the signal circuit is pulled to ground. With the switch closed, voltage seen at the parking assist control module is low. The parking assist control module will respond to this by activating or deactivating the parking assist function.

Parking Assist Switch Indicator

When the parking assist system is enabled, the parking assist control module will illuminate the indicator on the switch. The indicator receives voltage through a high control circuit from the body control module (BCM) and is controlled through a low control circuit by the parking assist control module.

Infotainment System

The infotainment system controls the audible alert for the park assist alert. If the an object is detected the infotainment system will command beeps as an audible alert to the driver.

Parking Assist Operation

When an object is within the measuring range of the sensor, the ultrasonic pulse is reflected and is received by the sending or a neighboring sensor. The sensor converts this signal into a voltage signal and sends this signal to the parking assist control module. The parking assist control module evaluates the received sensor signals. As soon as an object is within the measuring range, the parking assist control module sends a message via serial data to the infotainment system to provide an alert signal.

The parking assist system can detect objects greater than 7.6 cm (3 in) wide and 25.4 cm (10 in) tall. The system cannot detect objects below the bumper or underneath the vehicle.

The parking assist system can be activated and deactivated by pressing the parking assist switch. When the transmission is in R, park assist is automatically activated, unless disable by the switch.

The parking assist control module carries out a self test and monitors the sensors for electrical and mechanical faults. Monitored is the power supply of each sensor and the sensor signals. Mud, ice and snow may cause obstruction of the function of the sensors. The parking assist control module also determines if the correct type of sensor is installed. If any of these tests fails, a DTC with corresponding symptom is set and the parking assist system is deactivated.

Parking Assist System Driver Information Center Messages

SERVICE PARK ASSIST

The driver information center displays SERVICE PARK ASSIST when the parking assist control module detects a malfunction in the parking assist system and the system is disabled. The driver information center also displays SERVICE PARK ASSIST when a loss of communication occurs with the parking assist control module.

PARK ASSIST OFF

The PARK ASSIST OFF message is displayed in the driver information center when the parking assist system is disabled due to conditions that disable or inhibit the system. The parking assist control module requests the driver information center display PARK ASSIST OFF when it detects that one of the following conditions:

- The parking assist system is manually disabled using the parking assist switch.
- An object is attached to the rear of the vehicle, such as a trailer, bicycle rack, trailer hitch receiver, or tow bar. Also, an object extending beyond a lowered tailgate will disable the system.
- The object sensors are covered by snow, mud, dirt, slush, or ice.
- The rear bumper is damaged.

- Excessive paint thickness on a replacement parking assist sensor.
- The object sensors are disrupted by vibrations, like those caused by a large nearby vehicle or from heavy equipment such as a jackhammer.

Parking Assist Description and Operation (UD5)

The parking assist system is designed to identify and notify the driver of an object in the vehicle path when moving forward or reversing at speeds of less than 8 km/h (5 MPH). The distance and location of the object is determined by four object sensor located in the rear bumper and four object sensors located in the front bumper. The parking assist system will notify the driver using audible beeps through the infotainment system or haptic pulses through the driver's seat (if equipped).

The parking assist system is made up of the following components:

- K182 Parking Assist Control Module
- Front Parking Assist Sensors
- Rear Parking Assist Sensors
- Parking assist switch
- Parking assist indicator
- Infotainment system
- Safety alert seat, if equipped.

Parking Assist Control Module

The parking assist control module provides a reference voltage and a low reference to the eight object alarm sensors. The parking assist control module receives individual signals from each of the eight sensors and determines the location and distance of an object based on these inputs. When an object is detected, the parking assist control module will send a serial data message to the infotainment system requesting an audible alert.

Parking Assist Sensors

The parking assist sensors are located in the front and rear bumpers of the vehicle. The sensors are used to determine the distance between an object and the bumper. Each sensor emits an ultrasonic frequency which is reflected off any object located in front of or behind the vehicle. These reflections are received by the sensors. The time difference between the emission of the frequency and when the reflection is received is known as sensor echo time, it is used to determine the distance to the object. The sensors report this information to the parking assist control module.

Parking Assist Switch

The parking assist system can be activated and deactivated by pressing the parking assist switch. The parking assist control module applies voltage and monitors the parking assist switch signal circuit. The parking assist switch is a normally open switch. With the switch open, voltage seen at the parking assist control module is high. When the parking assist switch is pressed, the switch is closed and the signal circuit is pulled to ground. With the switch closed, voltage seen at the parking assist control module is low. The parking assist control module will respond to this by activating or deactivating the parking assist function.

Parking Assist Indicator

When the parking assist system is enabled, the parking assist control module will illuminate the indicator on the switch. The indicator receives voltage through a high control circuit from the body control module (BCM) and is controlled through a low control circuit by the parking assist control module.

Infotainment system

The infotainment system controls the audible alert for the park assist alert. If the an object is detected the infotainment system will command beeps as an audible alert to the driver.

Safety alert seat (if equipped)

The memory seat module controls the haptic alert provided by the seats. If an object is detected, the memory seat module will command pulses to the driver's seat.

Parking Assist Operation

When an object is within the measuring range of the sensor, the ultrasonic pulse is reflected and is received by the sending or a neighboring sensor. The sensor converts this signal into a voltage signal and sends this signal to the parking assist control module. The parking assist control module evaluates the received sensor signals. As soon as an object is within the measuring range, the parking assist control module sends a message via serial data to the infotainment system to provide an alert signal.

The parking assist system can detect objects greater than 7.6 cm (3 in) wide and 25.4 cm (10 in) tall. The system cannot detect objects below the bumper or underneath the vehicle.

The parking assist system can be activated and deactivated by pressing the parking assist switch. When the transmission is in R, park assist is automatically activated, unless disable by the switch.

The parking assist control module carries out a self test and monitors the sensors for electrical and mechanical faults. Monitored is the power supply of each sensor and the sensor signals. Mud, ice and snow may cause obstruction of the function of the sensors. The parking assist control module also determines if the correct type of sensor is installed. If any of these tests fails, a DTC with corresponding symptom is set and the parking assist system is deactivated.

When an object is 120 cm (47 in) to 31 cm (12 in) in front of the vehicle, the proximity of the object from the vehicle communicated via the instrument cluster.

When an object is very close (<0.6 m (2 ft) in the vehicle rear, or <0.3 m (1 ft) in the vehicle directly front, or (<0.6 m (2 ft) in the vehicle front sides), a continuous beep will sound from the front or rear, or both sides of the Safety Alert Seat (if equipped) will pulse. A distance of greater than 0.3 m (1 ft) in the vehicle front (head on) will keep the parking assist system from providing feedback while in stop and go traffic.

Parking Assist System Driver Information Center Messages

SERVICE PARK ASSIST

The driver information center displays SERVICE PARK ASSIST when the parking assist control module detects a malfunction in the parking assist system and the system is disabled. The driver information center also displays SERVICE PARK ASSIST when a loss of communication occurs with the parking assist control module.

PARK ASSIST OFF

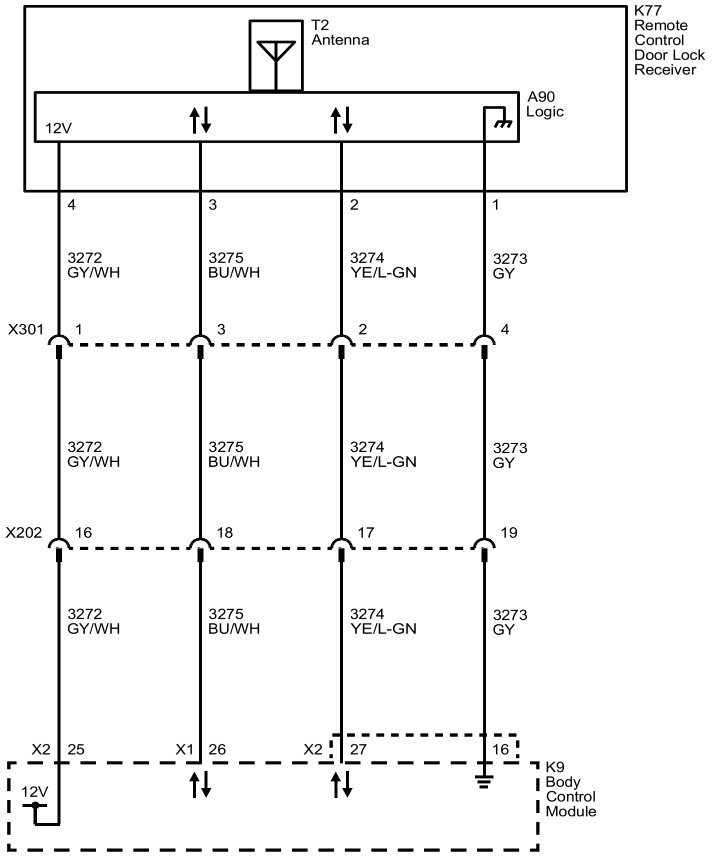
The PARK ASSIST OFF message is displayed in the driver information center when the parking assist system is disabled due to conditions that disable or inhibit the system. The parking assist control module requests the driver information center display PARK ASSIST OFF when it detects that one of the following conditions:

- The parking assist system is manually disabled using the parking assist switch.
- An object is attached to the rear of the vehicle, such as a trailer, bicycle rack, trailer hitch receiver, or tow bar. Also, an object extending beyond a lowered tailgate will disable the system.
- The parking assist sensors are covered by snow, mud, dirt, slush, or ice.
- The vehicle bumper is damaged.
- Excessive paint thickness on a replacement parking assist sensor.
- The parking assist sensors are disrupted by vibrations, like those caused by a large nearby vehicle or from heavy equipment such as a jackhammer.

Remote Functions

Schematic and Routing Diagrams

Remote Function Schematics (Keyless Entry)


T2
Antenna
K77
Remote
Control
Door Lock
Receiver
A90
Logic
12V
4
3
2
1
3272
GY/WH
3275
BU/WH
3274
YE/L-GN
3273
GY
X301
1
3
2
4
3272
GY/WH
3275
BU/WH
3274
YE/L-GN
3273
GY
X202
16
18
17
19
3272
GY/WH
3275
BU/WH
3274
YE/L-GN
3273
GY
X2
25
X1
26
X2
27
16
12V
K9
Body
Control
Module

4952205

Description and Operation

Keyless Entry System Description and Operation

The keyless entry system is a vehicle entry device. The keyless entry system is used in conjunction with the door locks to unlock the vehicle. Keyless entry will lock/ unlock the vehicle doors or open the rear compartment lid when a corresponding button on the keyless entry transmitter is pressed. This is accomplished by the transmitter sending a radio frequency to the Remote Control Door Lock Receiver antenna that has a direct link to the Body Control Module (BCM). The BCM interprets the signal and activates the requested function or request the appropriate control module to activate the function via a serial data message. A low transmitter battery or radio frequency interference from aftermarket devices, such as 2-way radios, power inverters, computers, etc., may cause a system malfunction. High radio frequency traffic areas, such as gas stations that use pay-at-the-pump radio frequency transponders, may also cause interference that could lead to a malfunction. Keyless entry allows you to operate the following features:

- Door lock/unlock
- Vehicle locator/Panic alarm
- Remote vehicle starting, if equipped

The keyless entry system has the following components:

- Keyless entry transmitters
- Body Control Module
- Remote Control Door Lock Receiver

Keyless Entry Transmitters

Note: When the vehicle key is in the ignition, keyless entry functions from all keyless entry transmitter are disabled.

The keyless entry transmitters are used to perform various entry functions while away from the immediate are of the vehicle. Keyless entry functions may work at up to 20 m (65 ft) away from the vehicle. Ambient conditions may affect the performance of the keyless entry transmitter and reduce the range at which keyless entry functions operate. Up to eight transmitters may be programmed to a single vehicle.

OnStar® Remote Link (if equipped)

A vehicle operator may have the ability to perform some of the keyless entry functions using applications on personal devices such as a smart phone. Unwanted or inadvertent door lock/unlock activation may be requested by the OnStar® Remote Link app. It is possible that a customer may be unaware of account usage, result in an unwanted or phantom door lock/ unlock. If normal system diagnosis does results in an inability to verify the customer’s concern, contact Technical Assistance Center (TAC).

Body Control Module (BCM)

The BCM is a multifunction module that operates the keyless entry system. When an radio frequency message is received from a keyless entry transmitter, the BCM interprets this signal and performs the specific function, i.e. door lock, door unlock, or vehicle locate.

Remote Control Door Lock Receiver

The Remote Control Door Lock Receiver acts as an antenna for the keyless entry system and communicates with the BCM through a dedicated serial data link. When a button is pressed on a keyless entry transmitter, the Remote Control Door Lock Receiver receives this signal and sends the request to the BCM. The BCM interprets the signal and performs the specific function, i.e. door lock, door unlock, or vehicle locate.

Unlock Doors

Momentarily press the transmitter UNLOCK button in order to perform the following functions:

- Unlock only the driver door or all doors and liftgate (if equipped); this is customized through the DIC.
- Illuminate the interior lamps for a determined length of time or until the ignition is turned ON.
- Flash the exterior lights; this is customized through the DIC.
- Disarm the content theft deterrent system, if equipped.
- Deactivate the content theft deterrent system when in the alarm mode.

Lock All Doors

Press the transmitter LOCK button to perform the following functions:

- Lock all vehicle doors.
- Immediately turn OFF the interior lamps.
- Flash the exterior lights and/or sound the horn; this is customized through the DIC.
- Arm the content theft deterrent system.

Vehicle Locator/Panic Alarm

A single press of the panic button performs the following functions. Some functions may be dependent on personalization settings:

- Pulse the horn three times.
- Flash the exterior lamps three times.

A press and hold of the panic button performs the following functions:

- Illuminate the interior lamps.
- Pulse the horn and flash the exterior lamps for 30 seconds or until the following conditions occur:
  - – The panic button is pressed.
  - – The ignition switch is turned to the RUN position with a valid key.

Remote Vehicle Start, if equipped

The remote vehicle start function allows engine starting while not in the vehicle. It also allows the vehicle HVAC system and other vehicle systems to enable, providing a comfortable vehicle upon entry. The remote vehicle start sequence begins by pressing and releasing the lock button and then pressing and holding the remote vehicle start buttons on the keyless entry transmitter. The turn signal lamps will illuminate to indicate the vehicle has received the remote start request. Each time an remote vehicle start is performed, the vehicle doors are locked, however they may then be unlocked/ locked with the transmitter or vehicle key at any time. Once activated, the engine is allowed to run for 10 minutes. The remote vehicle start time may be extended by an additional 10 minutes by again pressing and releasing the lock button and then pressing and holding the remote vehicle start buttons on the transmitter. This feature is called a remote vehicle start continue and allows a maximum of 20 minutes of engine running. If the remote vehicle start continue is performed at seven minutes into the initial 10 minute time-out, a total of 17 minutes of engine running would occur. The remote vehicle start event may be suspended at any time by pressing only the remote vehicle start button on the transmitter or by entering the vehicle and pressing the hazard lamp switch.

In between ignition cycles, only two remote vehicle start events may occur or be attempted. Once two events or attempts have been made, future remote vehicle start events will be suspended until the vehicle is started using the ignition.

Hood Ajar Switch

The hood switch provides status of the hood to the BCM for remote vehicle start purposes. The switch is integrated into the hood latch assembly.

Remote Vehicle Start Circuit Description

The BCM receives a signal from the keyless entry transmitter indicating a remote vehicle start request. A message is then sent to the BCM which determines if a crank request message will be sent to the ECM to allow engine starting. To determine if conditions are correct for an remote vehicle start event, the BCM will ensure the following conditions are met:

- A valid hood ajar switch closed signal is present.
- The doors are locked.
- The hazard switch is OFF.
- The vehicle power mode is correct.
- No content theft deterrent alarm triggers are present.

When the BCM determines all conditions meet those required for an remote vehicle start event, a message is sent via serial data to the ECM. The ECM relies on the remote vehicle start message from BCM to enable remote vehicle start when the crank request signal is received. If the ECM does not receive a valid remote vehicle start message, it will not attempt to start the engine. While the ECM is in remote vehicle start mode it will suspend engine operation if any of the following additional conditions occur:

- Vehicle speed is greater than 0.
- Transmission is not in PARK.
- Excessive engine coolant temperature
- Low oil pressure
- The malfunction indicator lamp (MIL) is commanded ON.
- Engine crank time is greater than 30 seconds.
- Excessive engine speed
- Accelerator pedal position too high
- Remote start timer equals 0.
- Immobilizer system indicates tamper

Keyless Entry Personalization

Vehicle lock/unlock functions and remote vehicle start remote vehicle start settings may be personalized. For functional descriptions and personalization instructions, refer to the vehicle owners manual.

Section 7

Transmission

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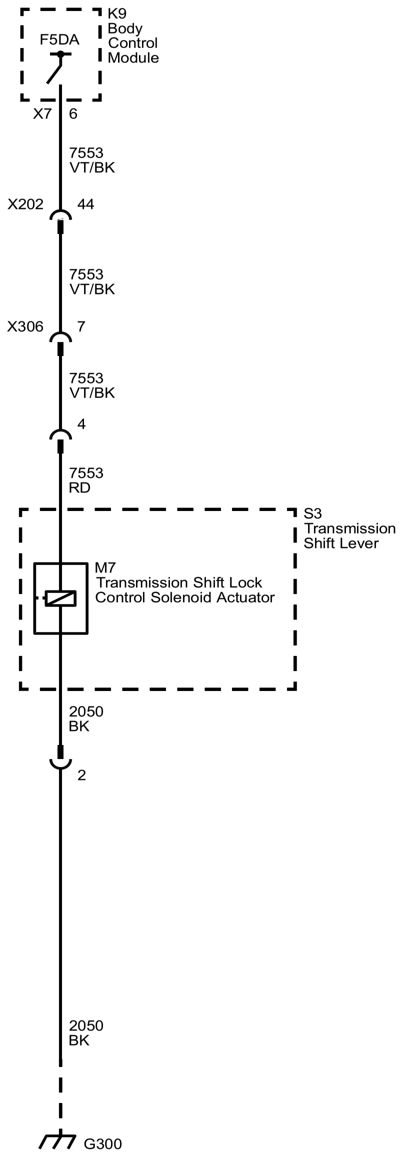
Shift Lock Control

Schematic and Routing Diagrams

Shift Lock Control Schematics (MYB)


F5DA
K9
Body
Control
Module
X7
6
7553
VT/BK
X202
44
7553
VT/BK
X306
7
7553
VT/BK
4
7553
RD
S3
Transmission
Shift Lever
M7
Transmission Shift Lock
Control Solenoid Actuator
2050
BK
2
2050
BK
G300

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Description and Operation

Automatic Transmission Shift Lock Control Description and Operation (Without T4Z)

The automatic transmission park lock control system is a safety device that prevents an inadvertent shift out of PARK. The driver must press the brake pedal before moving the park lever out of the PARK position. The system consists of the following components:

- The automatic transmission park lock solenoid (serviced as the automatic transmission shift lock actuator), is located within the floor shift control assembly.
- The body control module, which controls the voltage supply circuit of the park lock control solenoid.
- The engine control module.

The body control module controls the voltage to the park lock control solenoid through the park lock control solenoid controlled voltage circuit. The following conditions must be met before the body control module will supply voltage to the park lock solenoid:

- The ignition is in the ON position.
- The engine control module sends an input via GMLAN serial data to the body control module indicating the transmission is in the PARK position.
- The body control module determines the brake pedal is applied according the brake pedal position.

Since the park lock control solenoid is permanently grounded, the body control module supplies voltage to the automatic transmission park lock control solenoid, unlocking the park lever allowing the driver to move the park lever out of the PARK position as the solenoid energizes. When the brake pedal is not applied, the body control module turns the control voltage output of the park lock control solenoid OFF, de-energizing the park lock control solenoid. The de-energized solenoid mechanically locks the park lever in the PARK position.

Automatic Transmission Shift Lock Control Description and Operation (With T4Z)

The automatic transmission park lock control system is a safety device that prevents an inadvertent shift out of PARK. Vehicles equipped with the Safety Belt Assurance System (RPO T4Z), the driver must press the brake pedal and have the driver and if present, the front outboard passenger safety belt(s) buckled before moving the park lever out of the PARK position. The system consists of the following components:

- The automatic transmission park lock solenoid (serviced as the automatic transmission shift lock actuator), is located within the floor shift control assembly.
- The body control module, which controls the voltage supply circuit of the park lock control solenoid.
- The engine control module.
- The inflatable restraint sensing and diagnostic module.

The body control module controls the voltage to the park lock control solenoid through the park lock control solenoid controlled voltage circuit. The following conditions must be met before the body control module will supply voltage to the park lock solenoid:

- The ignition is in the ON position.
- The engine control module sends an input via GMLAN serial data to the body control module indicating the transmission is in the PARK position.
- The body control module determines the brake pedal is applied according the brake pedal position.
- The inflatable restraint sensing and diagnostic module determines if the occupied driver and front outboard passenger, if present, have their safety belt(s) buckled.

Since the park lock control solenoid is permanently grounded, the body control module supplies voltage to the automatic transmission park lock control solenoid, unlocking the park lever allowing the driver to move the park lever out of the PARK position as the solenoid energizes. When the brake pedal is not applied, the body control module turns the control voltage output of the park lock control solenoid OFF, de-energizing the park lock control solenoid. The de-energized solenoid mechanically locks the park lever in the PARK position.

Vehicles with the Safety Belt Assurance System, will display the following message “Shift Locked, Buckle Seatbelt” if the driver and front outboard passenger, if present, do not have safety belt(s) buckled. The vehicle will not shift out of PARK. Buckle the safety belt(s) to unlock the shifter.

This system may not allow the vehicle to shift out of PARK if an object such as a briefcase, handbag, grocery bag, laptop, or other electronic devices is on the front outboard passenger seat. If this happens, remove the object from the seat or buckle the safety belt.

Vehicles with the Safety Belt Assurance System, will display the following message “Shift Unlocked, Brake To Shift” if the system times out and allows the vehicle to be shifted out of PARK after 30 s following brake applied.

The Safety Belt Assurance System can be disabled with a calibration file update in the K36 Inflatable Restraint Sensing and Diagnostic Module using SPS. This procedure should only be done to help resolve a customer dissatisfaction issue.

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A

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